# CONSTRUCTION NEWS

## Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

### Proposed Work

Sewer, Montreal, Que., plans submitting referendum to ratepayers in January, $20,000,000.

Grade crossing elimination, Syracuse, N. Y., Common Council plans, $20,000,000.

Railway, Oklahoma City, Okla., City voted bonds for purchasing right of way and elevating tracks, $4,000,000. Rock Island R.R. Co. and Frisco Lines plan two passenger stations, $10,000,000.

Excavation, Cleveland, O., City and Bd. Comrs. Cuyahoga Co. making plans straightening Cuyahoga River, $6,000,000.

Power plant, Estevan, Sask., Northern Light and Power Co., Bismarck, N. D., plans, $5,000,000.

Hotel, Jersey City, N. J., Universal Securities Co. having plans prepared, $5,000,000.

University, Los Angeles, Calif., Los Angeles Lutheran University having preliminary plans prepared, $5,000,000.

Gas pipe line, Texas, Frank Pickrell & Associates making surveys and plans, $5,000,000.

City Hall, Camden, N. J., Bd. Freeholders Camden Co. having plans prepared, $3,000,000.

Paper mill, St. Helens, Ore., C. R. McCormick Lumber Co. plans, $3,000,000.

Station, Tulsa, Okla., City voted bonds, $1,250,000, its share for union station. Total est. $3,000,000.

College, Cleveland, O., Western Reserve University plan group of buildings, $2,500,000.

Police and fire telephone signal, Montreal, Que. Plans submitting referendum to ratepayers in January, $2,000,000.

Incinerators, Montreal, Que. Plans submitting referendum to ratepayers, $1,700,000.

High school, Brighton, Mass., City of Boston takes bids about Jan. 5, $1,539,000.

Hotel, Windsor, Ont., Greater Windsor Development Co. having plans prepared, $1,500,000.

Stores, Honolulu, T. H., Dillingham Co. having preliminary plans prepared, $1,250,000.

### Bids Desired

Court House, Providence, R. I., Jan. 10, by Providence County Comn. $3,500,000.

Plant, Ft. Worth, Tex. Jan. 22 by Montgomery Ward & Co. $2,000,000.

### Contracts Awarded

Steam power plant, Deep Water Point, N. J., Amer. Power Corp. and Amer. Gas & Electric Co. to Stevens & Wood, Inc. Engrs. est. $10,000,000-$11,000,000.

Subway, Long Island City, N. Y., Bd. Transportation to Atwell, Gustin & Morris Co., New York City, $5,198,284.

Office, New York, N. Y., Courtlef Realty Corp. will build by separate contracts, $3,500,000.

Power plant, Alabama City, Ala., Gulf States Steel Co. to Dwight P. Robinson, Inc., New York City, $3,000,000.

Store Oakland, Calif., H. C. Capwell Co., to P. J. Walker Co., San Francisco approximately $3,000,000.

Railway, Kentucky and Virginia, Louisville & Nashville R.R. Co. to W. W. Boxley & Co., Roanoke, Va., $2,500,000.

Hotel, Halifax, N. S., Lord Nelson Hotel Co. to H. L. Stevans & Co. Toronto Ont. Archts. est. $1,250,000.

Garage, New York, N. Y., Kent Automatic Parking Garage, Inc., to F. T. Ley Co. Archts. est. $1,250,000.

Bridges, Chicago, Ill., City, substructure to Fitzsimmons-Connell Dredge & Dock Co., $491,105; superstructure, to Ketler-Elliott Co., $480,000; substructure West Taylor St. to Central Dredging Co., $138,444. Total, $1,109,549.

## News of the Week

## Waterworks

### Proposed Work

**Miss., Meridian** — Making preliminary plans 70 x 100 ft., rein.-con. settling basin, 20 ft. deep. $20,000. B. Stewart, City Hall, engr.

**Tenn., Greenville** — Making preliminary surveys waterworks extensions. To exceed $15,000. Klyce & Haub, 4th & 1st Natl. Bank Bldg., Nashville, engrs.

**Okla., Chickasha** — Making preliminary plans impounding reservoir and flow line. $50,000. C. A. Dearman, mayor. Engineer not announced.

**Okla., Erick**—Making preliminary plans extending 11,000 ft. 4 and 6 in. c.i. mains in various streets. $15,000. J. A. Richardson, Erick, engr.

**Okla., Mooreland**—Voted $30,000 bonds, new waterworks. E. A. Jones, Enid, engr. Noted Dec. 8.

**Calif., Aptos**—Aptos Water Co. (W. C. Lyon), 65 Sutter St., San Francisco, plans water supply. To exceed $25,000.

### Bids Desired

**N. Y., Brewster**—Dec. 23, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, chlorinating plant incl. small dam, intake and outlet pipe lines, diffusor pit and grit chamber, on Peach Lake Outlet, near here.

**N. Y., Yonkers**—Jan. 4, at office Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, structural steel and rein.-con. protection for pure water reservoir, also stone timber faced rein.-con. bridge on Saw Mill River Parkway, here, Contr. 160. J. Downer, ch. engr.; adv. E. N.-R. Dec. 22.

**N. J., Newark**—Dec. 28, at office T. L. Raymond, dir. Pub. Affairs, City Hall, 60 in. water conduit from Belleville Reservoir, Bellville, to 8th Ave., here. Former bids rejected. Noted Nov. 24.

**Fla., Bradentown**—Dec. 30, by R. K. Van Camp, comr. Pub. Wks., 5 ton hand operated traveling crane; 100 kw. multi-cylinder vertical gasoline or Diesel driven a.c. generating unit, direct connected engine; 1,750 g.p.m. each direct connected to multi-cylinder gasoline engine and 750 g.p.m. centrifugal pumps, each direct connected to electric motors, switch and gauge board; also concrete and brick pumping station, erecting machinery and making hydraulic and electrical connections. E. V. Camp and Associates, Inc., Atlanta, Ga. and Bartow, consult. engrs.

**O., Brook Park** (br. Cleveland)—Dec. 28, by Village, mains in 6 streets. To exceed $15,000. B. T. Wright, c/o owner, engr.

**O., Yellow Springs**—Jan. 11, by C. H. Ellis, clk. Bd. Trustees Pub. Affairs, 12 x 18 ft. stucco and timbre pump house and equipment, Contr. 1, $6,000; 14,000 ft. 6 in. c.i. pipe, etc., Contr. 2, $23,000; also 100,000 gal. elevated steel water tank, Contr. 3, $7,500. Jennings-Lawrence Co., Hartman Bldg., Columbus, engr.

*THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.*

*Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.*

**Ill., Fox River Grove** — Dec. 29, by Village, F. Cerny, mayor, sinking deep well. Suhr, Berryman, Peterson & Suhr, 105 North Clark St., Chicago, engrs.; adv. E. N.-R. Dec. 22.

### Contracts Awarded

**Pa., Phila.**—Dept. Pub. Wks., Bureau of Water, 300 single nozzle fire hydrants, Contr. 907, to Teil Mfg. Co., 2935 West 47th St., Chicago, Ill., $12,180; and 30 in. pipe, connections, etc., to P. and A. J. Ellis, 4th and Wyoming Sts., $24,619. Noted Dec. 1.

**La., New Orleans** — Sewerage & Water Bd., 526 Carondelet St., waterworks, sewerage and drainage during 1928, to J. M. McGowan, 1209 Joseph St. at $0.0057. Noted Oct. 20.

**Okla., Anadarko**—Extending 13,580 ft. 4 in. c.i. main, 13 fire hydrants and 13 four in. valves in various streets, to Cullum Constr. Co., Central Bank Bldg., Dallas, Tex., $26,479. Engrs. est. $35,000. Noted Aug. 18.

**Okla., Chickasha**—Extending mains in various streets, to E. W. Baker, Perrine Bldg., Oklahoma City, $69,681. Engrs. est. $90,000. Noted Sept. 1.

**Okla., Talihina**—E. T. Nelson, town clk., waterworks, incl. dam and pipe line, to Carrothers & Co., 6803 East 39th St., Kansas City, Mo., $54,000. Engrs. est. $60,000. Noted Dec. 1.

## Sewers

### Proposed Work

**N. Y., Johnson City** — Bd. Village Trustees, J. C. Banks, mayor, making preliminary surveys sewerage system and disposal plant. Fuller & McClintock, 170 Bway., New York City, engrs.

**O., Euclid**—Plans approximately 4,000 ft. 60- to 72-in. sewer in Upson Rd., $80,000; and 3,000 ft. 36- to 48-in. sewer in Johnson Rd., $65,000. F. A. Thomas, Town Hall, engr.

**Mich., Chelsea** — Making preliminary plans sewerage system and disposal plant, incl. tank, etc. $70,000. G. Champe, Nasby Bldg., Toledo, O., engr.

**Mich., Detroit**—Dept. Pub. Wks. making plans 10,000 ft. 12 in. concrete circular sewer in tunnel, incl. special sections and connections in Cavalry Ave. $750,000. P. A. Fellows, City Hall, engr.

**Kan., Kansas City** — Soon takes bids sewers in West Argentine Dist. $30,000. R. W. Swope, Kansas City, engr.

**Okla., Shawnee** — Making preliminary plans sewers in Bway., Beard and Main Sts., $100,000; also extending 4 mi. sewers in East Highland addition. $40,000. E. T. Archer & Co., 612 New England Bldg., Kansas City, Mo., engrs.

**Okla., Tulsa** — Voted $100,000 bonds, sewers in various streets. C. Schultz, City Hall, engr.

**Calif., Long Beach**—Takes bids about Jan. 8, 134,060 ft. 8- to 24-in. vitr. clay

***See proposal advertising on page 104***

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TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

# Only 51 days between the decision to build an emergency water works plant - - *and the finished job!*

***- - the speed with which Leadite jointing can be accomplished contributed to this remarkable feat.***

THE line illustrated here is 26,000 ft. of 12" pipe with LEADITE joints.

Owing to the emergency which arose in the city for which the installation was made no trenching could be attempted.

The line lies throughout its entire length on the surface of the ground without any bracing except at the bends.

After completion the line was tested to 260 lbs. pump pressure.

It is now under constant pump working pressure of 230 lbs. For over 30 years now, LEADITE has demonstrated by test and experience that it is absolutely permanent and secure.

*Part of the 26,000 ft. installation, crossing an open field. Chas. E. Waddell & Co., Engineers.*

Leadite is self-caulking and is so simple to use that the method of using it can be taught to even the most inexperienced help in a very short time.

Added to its speed and ease of use—Leadite saves at least 75% on account of saving in material and labor.

Specify and use **LEADITE** —it saves at least 75%

Be sure it is **LEADITE** and accept no imitations ~ ~ ~

***The pioneer self-caulking material for c. i. pipe. Tested and used for over 30 years.***

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

# NO CAULKING

Sewers (Continued)

sewer in Parker, Gale, Pico, Ellis, Fachion and Harbor Aves., et al. $750,000. A. H. Adams, City Hall, engr. Noted Dec. 15.

**Calif., Los Angeles**—Bd. Pub. Wks. takes bids about Jan. 15, 11,242 ft. Angeles Mesa Dr., Liemert Ave., Garthwaite, 9th, 8th and 7th Sts. et al in Slauson Ave. Storm Drainage System Sect. 6. L. W. Armstrong, Brunswig Bldg., engr.

**Calif., Los Angeles**—Made plans sewers in Angeles Mesa Dr. between Santa Barbara Ave. and point 200 ft. south, in addition to portions Liemert Blvd. and 11th Ave., etc. (Slauson Ave. Storm Drain, Sect. 6.) L. W. Armstrong, city storm drain engr.

**Que., Montreal**—Plans submitting referendum to ratepayers in January, trunk sewers. $29,000,000.

**Ont., Hamilton**—Making plans and takes bids about Jan. 1, overflow sewer in various streets. $383,000. W. C. McFaul, City Hall, engr.

**Ont., Toronto**—York Twp. making plans 15,000 lin.ft. 6 in. and up vitr. tile sewers in Holwood Rd., Jane St. and 8 avenues; and private drains in 4 avenues. $50,000. F. B. Goedike, 40 Jarvis St., engrs.

### *Bids Desired*

**N. Y., Brooklyn**—Dec. 28, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewer in Applegate Court, also grading and sheet asphalt on concrete repaving Engert Ave. from Leonard St. to Graham Ave.

**N. J., Keansburg** — Jan. 3rd, by Mayor and Council, sewers in various streets. Former bids rejected. Remington & Vosbury, 509 Cooper St., Camden, engrs. Noted Nov. 24.

**Pa., Phila.**—Dec. 28, by Dept. Pub. Wks., Bureau of Engineering, Schedule A, branch sewers; Schedule B, main sewers, incl. extending Little Tacony Creek and Haverford St. between 69th St. and Lebanon Ave.; and Schedule C, sewage disposal project along county line between Darby and Church Creeks. G. H. Biles, dir.

**La., DeQuincy**—Jan. 5, by H. L. Smith, pres. Bd. Sewerage Comrs. sewerage system in Dist. 1. J. B. McCrary Eng. Corp., Citizens & Savings Bldg., Atlanta, Ga., engrs. Noted Oct. 20.

### *Contracts Awarded*

**N. Y., Syracuse**—Bd. Contr. & Supply, City Hall, sewers in Velasko Rd. and Bellevue Ave., to J. M. Corbett, Jr., S. K. & K. Bldg., $44,581. Noted Nov. 24.

**Pa., Northampton**—R. M. Kiechel, secy. Town Council, sanitary sewers in various streets, to Flanagan & Correale, Scranton and Hazleton, $121,333; and disposal plant, to R. T. and C. D. Stewart, Easton, $58,160. Noted Oct. 20.

**Tenn., Knoxville**—Directors Pub. Serv., sewer in Sequoyah Hills Draniage Dist., to A. J. Wardrep, Knoxville, $65,505. Noted Nov. 24.

**O., Willoughby**—See "Streets and Roads."

**Ind., Elkhart**—Precast sewers in business district to P. C. Sorenson, 443 Worden St., Grand Rapids, Mich., $165,035. Noted Dec. 15.

**Ont., London**—City Council will lay 6, 8, and 10 in. sewers in various streets, by day labor, under direction W. P. Near, city engr. $50,000.

**Calif., Los Angeles** — Sewer in 5th St. between Fairfax Ave. and San Vicente Blvd., to L. Miletich, 610 West 54th St., $42,844. Noted Dec. 8, mayor.

**Calif., Los Angeles**—Supervs. Los Angeles Co., 110,000 lin.ft. 6- to 15-in. sewer in Willowbrook and Paulsen Aves., Willowbrook Unit 1, Impvt. 611, to J. Artukovich, 684 East 50th St., $214,040. Noted Dec. 8.

**Ont., Toronto**—T. Foster, chn. Bd. Control, City Hall, sewer in Golfdale Rd., to McNamara Constr. Co., 53 Yonge St., $7,397; and 1¼ mi. Sect. A. B. North Toronto Trunk Sewerage System, concrete and brick pipe, to A. Cavotte, 257 Euclid Ave., $132,000. Noted Nov. 10.

## Waste Disposal

### *Proposed Work*

**Que., Montreal**—Plans submitting referendum to ratepayers in January, incinerators, etc. $1,700,000.

## Bridges

### *Proposed Work*

**Mass., Newton** (Ind. br. Boston)—Boston & Albany R.R., G. A. Kirley, ch. engr., Boston, plans concrete bridge over Crescent Ave., West Newton. $25,000 or more.

**Rhode Island**—Washington Bridge Comn., State House, Providence, making plans concrete arch, leaf bascule bridge connecting Providence and East Providence. $3,000,000. C. W. Hudson, 15 Park Row, New York City, engr. Noted Sept. 1.

**Miss., New Albany**—City and Union Co. soon takes bids rein.-con. bridge across Tallahatchie River, here. $70,000. Noted Aug. 18.

**Tenn., Knoxville**—See "Unclassified."

**Tenn., Lewisburg** — Marshall Co. voted $30,000 bonds, new bridges.

**Wisconsin** — State Hy. Comn., Madison, making plans 5 span, 130 ft., concrete and steel bridge over Black River, on Highway 35. $140,000. H. J. Kuelling, comr.

**Missouri**—State Hy. Comn., Jefferson City, plans one 60 ft. steel truss span bridge in Bates Co.; four 10 ft. rein.-con. slab and four 30 ft. rein.-con. deck girder spans, etc., Callaway Co.; two each 10 and 12 ft. rein.-con. slab, one 60 ft. steel truss and two 40 ft. rein.-con. deck girder spans, etc., Cape Girardeau Co.; 20 ft. rein.-con. slab spans, etc., Cass Co.; 44 ft. rein.-con. deck girder span, etc., Cole Co.; four 24 ft. rein.-con. slab spans, Gentry Co.; two 20 ft. rein.-con. slab, two 30 ft., one 35 ft. and one 40 ft. rein.-con. deck girder, seven 20 ft. and two 40 ft. I-beam, also one 80 ft. steel truss spans, etc. Holt Co.; three 30 ft. rein.-con. deck girder spans, Howard Co.; three 30 ft. rein.-con. deck girder spans, etc. Lincoln Co.; two 16 ft. six 20 ft. and six 35 ft. I-beam, one 80 ft., two 60 ft. and one 140 ft. steel truss spans, etc., Nodaway Co.; 30 ft. rein.-con. deck girder span, Phelps Co.; five 20 ft. rein.-con. slab spans, etc., St. Charles Co.; 38 ft., 43 ft. and 45 ft. rein.-con. deck girder spans, etc., Warren Co. T. H. Cutler, ch. engr.

**Arkansas**—Benton Co. Quorum Court, c/o W. R. Edwards, judge, Bentonville, takes bids in summer, rein.-con. and steel bridge over White River, on Bentonville-Eureka Springs Rd., near Best; Perry Alden Dam Bridge over Osage River; Deep Ford Bridge over Osage River, near Logan; Fairview Schoolhouse Bridge over Osage River near Dixieland Pl.; Alden Farm Bridge over Spavinaw Creek, 5 mi. south of Gravette; Spavinaw Creek Bridge, 2 mi. south of Gravette; and Court Hart Pl. Bridge over Osage River, south of Bentonville. $35,000.

**Tex., Johnson City**—Blanco Co. plans concrete and steel bridge across Pedernales River. $40,000.

**Tex., Waxahachie** — Ellis Co. making plans viaduct over Missouri Kansas & Texas R.R. and Trinity & Brazos Valley Ry. tracks on State Highway 6. $123,000. W. A. Spalding, Waxahachie, engr.

**Okla., Allen**—State Hy. Dept., Oklahoma City, making preliminary plans 1 span 96 ft. steel truss bridge on piers over Steep Creek, on Road 12, Pontotoc Co., near here. $35,000. C. R. Mandigo, Capitol, Oklahoma City, engr.

**Okla., Ketchum** — Craig Co. (Vinita) making preliminary plans 2 span 220 ft. steel truss bridge on piers over Grand River, near here. $80,000. G. Walter, Vinita, engr.

**Que., Montreal**—Soon takes bids concrete and steel bridge over Canadian & Pacific Ry. tracks, at Grande Blvd. $55,000.

### *Bids Desired*

**N. Y., Yonkers**—See "Waterworks."

**Pa., Phila.**—Dec. 28, (extended date) by Dept. Pub. Wks., Bureau of Engineering, Bridge Div. replacing 2 timber bridges with 60 x 378 ft. and 60 x 380 ft. steel span bridges each to have 3 rein.-con. arches, etc. over Pennypack Creek, line of Rhawn St. $600,000. Former bids returned unopened. Noted Dec. 8.

**Pa., Pittsburgh**—Dec. 23, by City Council reconstructing and paving Ellsworth Ave. Bridge over Pennsylvania R.R. tracks. $70,000.

**Pa., Pittsburgh**—Dec. 23, by City Council, reconstructing and extending Viaduct 2, also reconstructing Viaduct 3, together with ramps and appurtenances on Blvd. of the Allies. $550,000. Bureau of Engineering City-County Bldg., engrs. Noted Sept. 15.

**Ala., Birmingham** — See "Streets and Roads."

**Miss., Vicksburg**—Jan. 4 (extended date), by Vicksburg Bridge & Terminal Co., c/o H. Bovay, pres., 1263 Agnes Pl., Memphis, Tenn., at National Park Hotel, four simple spans and two 420 ft. anchor arms and one 825 ft. cantilever channel span highway and railway bridge, with 4,000 ft. embankment approaches at each end, 55,000 cu.yd. concrete, 15,000 tons steel, etc., over Mississippi River, here. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engrs. Noted Dec. 8.

**O., Akron**—Dec. 27, by W. F. Peters, Dir. Pub. Serv., substructure and approach walls East Center St. grade separation project. $45,000. E. A. Kemmler, Municipal Bldg., engr.

**Mo., Princeton**—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

**Ark., Fulton**—Dec. 30 by State Hy. Comn., Little Rock, 1,907 ft. concrete bridge and approaches over Red River, here. I. G. Hedrick, Inc., 319-20 Ardis Bldg., Shreveport La., consult engrs.; adv. E. N.-R. Dec. 22. Noted Nov. 3.

**Tex., San Antonio** — Dec. 27, by City Comrs., 103 ft. vehicular and pedestrian bridge, 39 ft., with 8 ft. sidewalks. $35,000. S. F. Crecelius, 201 Torcido Dr., engr.

### *Contracts Awarded*

**N. Y., Croton Lake**—A. Goldman, comr. Plant & Structures, Municipal Bldg., New York City, reinforcing and reconstructing Pines Bridge over Croton Lake, here, to Beech Contg. Co., 122 Livingston St., Brooklyn, $59,434. Noted Dec. 1.

**Pa., New Castle**—Comrs. Lawrence Co., J. R. Lamoree, chn. com., Court House, viaduct over Beaver River and railroad tracks connecting Wampun and Chewton, to M. J. McMahon, DuBois, $312,865. Noted Nov. 24.

**Pa., Pittsburgh**—Comrs. Allegheny Co., Court House, granite pylons on Liberty Bridge over Monongahela River, to Donatelli Granite Co., Brighton Rd., $68,110. Engrs. est. $75,000.

**North Carolina**—State Hy. Comn., Raleign, rein.-con. bridges and culverts on Project 624, Catawba Ca., to Hobbs-Peabody Constr. Co., Charlotte, $53,799. Noted Aug. 11.

**O., Cincinnati**—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, 8th St. Viaduct, ⅔ mi. long, rein.-con. and steel, on Ohio River Rd., here, to Folwell-Ahlskog Co., 323 North Michigan Ave., Chicago, Ill., $1,851,829. Noted Dec. 15.

**O., Columbus**—See "Streets and Roads."

**Ill., Chicago**—City, Room 406, City Hall, substructure for double leaf trunnion bascule bridge over Chicago River, on North Clark St., to Fitzsimmons-Connell Dredge & Dock Co., 10 South La Salle St. $491,105, and superstructure for same, to Ketler-Elliott Co., 3101 South California Ave. $480,000; also substructure for double leaf trunnion bascule bridge over South Branch Chicago River, on West Taylor St., to Central Dredging Co., 307 North Michigan Ave., $138,444. Grand total $1,109,549. Noted May 12.

**Iowa**—State Hy. Comn., Ames, to Knutson Bros., Chariton, 90 x 20 ft. pony truss bridge with two 40 ft. I-beam approach on Bridge Project 503, near Kimballton, Audobon Co. $16,447, one 90 x 20 ft. pony truss bridge with two 32 ft. I-beam approaches on U. S. Highway 32, Bridge Project 523, Muscatine Co. $14,795, 150 x 20 ft. high truss and 24 x 24 ft. I-beam bridges on West Liberty-Nichols Rd., Bridge Project 513, Muscatine Co. $20,480, and three 40 x 24 ft. span bridge across Summit Lake, Bridge Project 493-B, near Creston, Union Co. $12,870; to A. F. Johnson, Lockbridge, three 160 x 20 ft. span high truss bridge with two 40 ft. I-beam approaches over Skunk River, on U. S. Highway 161, Bridge Project 313, near Mt. Pleasant, Henry Co. $63,900; to A. A. Alexander, Des Moines, three 130 x 20 ft. span high truss bridge with two 40 ft. I-beam approaches on U. S. Highway 161, Federal Aid Project 296, at Curtis, Johnson Co., $46,937; to Wallace Lumber Co., Sigourney, 14 culverts and extensions on U. S. Highway 32, Bridge Project 523 $3,200, also 12 culverts and extensions on West Liberty-Nichols Rd., Bridge Project 513, $6,100 both Muscatine Co. Grand total $184,729. Noted Dec. 8.

**Kan., Howard**—See "Streets and Roads."

**Kan., Oswego**—Labette Co., to C. Koch & Sons, Kansas City, Mo., five 30 ft. deck girder span bridge $8,391, five 16 ft. slab span bridge $7,878, and seven 30 ft. deck girder span bridge $11,208, all on Project 214-B. Grand total $27,477.

**Texas**—See "Streets and Roads."

**Tex., Belleville**—R. A. Thompson, state highway engr., Austin, concrete pile bridges on Highway 73-A, Austin Co., here, to Davis Pace Co., 1306½ Young St., Dallas. $34,881. Engrs. est. $50,000. Noted Dec. 1.

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# Advantages of Independent Concrete Pipe Sewers

## *from the ENGINEER'S Point of View*

Permanency and economy of concrete pipe sewers have been proved by long and successful service.

Pipe units are built locally—
The special pipe plant becomes a "Home industry." Uses local labor and materials wherever possible. Benefits local business.

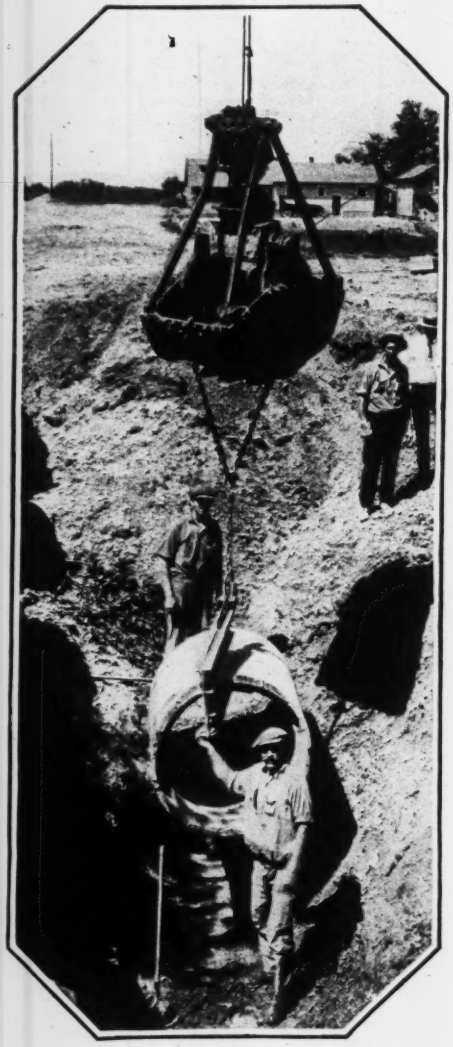
Inspection is facilitated—
Materials, workmanship and pipe units are tested and inspected at every stage of construction.

Pipe is low in cost—due to the economies of "Independent" advanced methods of manufacturing concrete pipe.

Entire joint is visible for inspection, until trench is backfilled.

Completed sewer is strong, tight, permanent and efficient. Provides free flow and maximum capacity. Endures for generations, with little or no upkeep.

Let us send you engineering data.



*Placing Independent Concrete Sewer Pipe at Lansing, Mich. One machine does all digging, laying and back-filling.*

## *from the CONTRACTOR'S Point of View*

Building the pipe locally—on the job or nearby, assures prompt delivery of pipe along the line of work, ready for the construction crew to lay.

"Recessed" Joints make the pipe easier to lay. Lower half of joint is sealed inside the sewer—upper half of joint is filled on top of pipe.

Pipe can be laid easily, and speedily even where water, caving soil, or other difficult trench conditions are encountered.

Laying can follow excavating closely, and back-fill can be made immediately after pipe joints are sealed, if required. Often one machine can do all three operations—digging, laying and backfilling.

Finished sewer means a profitable job, and a satisfied "customer."

Get our estimates on your 1928 sewer projects. Our low prices and complete service facilities will interest you.

INDEPENDENT CONCRETE PIPE CO., 202 N. West St., Indianapolis, Indiana.

# INDEPENDENT
## Reinforced Concrete Pipe

Bridges (Continued)

**Tex., Giddings**—See "Streets and Roads."

**Tex., Houston**—See "Streets and Roads."

**Wash., Argo** (mail Seattle)—Northern Pacific R.R. Co., H. E. Stevens, ch. engr., St. Paul, Minn., Chicago, Milwaukee & St. Paul Ry. Co., C. F. Loweth, ch. engr., Chicago, Ill., Pacific Coast Ry. Co., A. F. Marion, ch. engr., Seattle, Oregon, Washington R.R. & Navigation Co., S. Murray, asst. ch. engr., Portland, Ore., and Puget Sound Electric Ry. Co., 1531 Utah St., Seattle, 800 ft. rein.-con. and steel elevated bridge, incl. 700 tons steel, here, to J. A. McEachern Co., Inc., Colman Bldg., Seattle, $230,000.

**California**—Santa Fe R.R., R. B. Ball, ch. engr., 6th and Main Sts., Los Angeles, 4 concrete piers for bascule type railroad bridge over Middle River, in San Joaquin Co., to Missouri Valley Bridge Co., Leavenworth, Kan., structural steel, to U. S. Steel Products Co., Rialto Bldg., San Francisco. Engrs. est. $400,000. Noted Sept. 29.

# Railways

## Proposed Work

**Texas**—Texas-New Mexico Ry. Co., c/o G. O. Bateman, pres., Breckenridge, plans 35 mi. standard gage railway from Monahans, Ward Co. to and through Kermit, Winkler Co. $200,000.

**Okla., Oklahoma City** — City voted $4,000,000 bonds purchasing right-of-way Rock Island Ry. Co. and elevating tracks. Rock Island R.R. Co. and Frisco Lines plan expending $10,000,000, 2 new passenger stations. Noted July 30, 1925.

## Contracts Awarded

**Kentucky and Virginia** — Louisville & Nashville R.R. Co., 9th St. and Bway., Louisville, Ky., 13 mi. railroad through Cumberland Mountains from Chevrolet, Ky., to Hagans, Va., incl. 4 tunnels, to W. W. Boxley & Co., Roanoke, Va., $2,500,000. Noted June 30.

**Quebec**—City of Montreal, levelling and constructing route for tramways line up Mount Royal, in Montreal, to Cooke Constr. Co. Ltd., 10 Cathcart St., $287,415.

**Manitoba**—Canadian Natl. Ry., 230 St. James St., Montreal, Que., C. S. Gzowski, ch. engr. (Constr.), constructing Flin Flon branch line in northern Manitoba, to Dominion Constr. Co. Ltd., Royal Bank Bldg., Toronto, Ont., and Tomlinson Co., 502 Confederation Life Bldg., Winnipeg. Noted Dec. 1.

# Excavation, Drainage, Irrigation, Levees, River and Harbor

## Proposed Work

**O., Cleveland**—City and Bd. Comrs. Cuyahoga Co. making plans removing approximately 2,000,000 cu.yd. earth and straightening Cuyahoga River. $6,000,000. F. A. Pease, Marshall Bldg., engr.

**Mich., Detroit**—Dept. Parks & Boulevards, Marquette Bldg., making plans deepening and enlargening canals and lagoons on Belle Isle. $35,000. Private plans.

**Mich., Detroit** — Dept. Parks & Boulevards, Marquette Bldg., making plans dredging channels, grading banks, etc., incl. diverting and straightening Rouge River at bend in Baby Creek and River Rouge Parks. $25,000. Private plans.

**Tex., San Antonio** — City, c/o C. M. Chambers, mayor, soon takes bids river cut-off project for flood prevention, incl. clannel 60 ft. wide and 20 ft. deep, concrete lining, etc. across Commerce and Market Sts. $175,000. S. F. Crecelius, 201 Torcido Dr., engr.

**Okla., Frederick**—Deep Red D. D. 2, Tillman Co., takes bids about Jan. 15, constructing in Deep Red Main Ditch, Little Red Lateral 1, and Jack Creek Lateral 2, incl. 465,619 cu.yd. excav., etc. $46,561.

**Calif., Los Angeles**—Harbor Comn. made plans 44,500 cu.yd. dredging at Berths 178-179. G. F. Nicholson, San Pedro, city harbor engr.

**Porto Rico**—Bureau Insular Affairs, War Dept., Munitions Bldg., Wash., D. C., sold $500,000 bonds, irrigation system, at or near Toro Negro River, here.

## Bids Desired

**N. Y., New York**—Dec. 27, by M. Cosgrove, comr. Docks, Pier "A," foot Battery Pl., dredging at Plant 1, Dept. Street Cleaning, Rikers Island, Bronx Boro; and dredging in Manhattan Boro.

**Miss., Clarksdale**—Jan. 3, by Bd. Drainage Comrs. Coahoma Co., enlargement works in Hopson Bayou D. D., incl. 95,000 cu.yd. excav., 6 mi. ditch, 12 to 20 ft. wide at bottom, etc. L. W. Washburn, Clarksdale, engr.

**Mo., Princeton** — Dec. 28, by E. Mason, secy. Bd. Supervs. Mercer Co. Muddy Creek D. D. 1, approximately 237,000 cu.yd. open ditch excav.; also three 70 ft. and one 60 ft. steel bridges, etc. C. E. Jacoby Eng. Co., Interstate Bldg., Kansas City, engrs. Noted Nov. 17.

**Wash., Aberdeen**—Jan. 2, by City Council, filling 100 block district. $140,000. G. D. Ross, city engr.

## Contracts Awarded

**O., Conneaut** — Bessemer & Lake Erie R.R. Co., removing pier, widening and dredging channel, to L. A. Wells Constr. Co., 30 Euclid Arcade, Cleveland, $100,000.

**Ill., Piper City**—Vermilion Special D. D., redredging 5 mi. ditch near here, to F. M. Crane Co., 210 South 24th St., Omaha, Neb. Noted Oct. 28.

**Ill., Quincy**—J. T. Inghram, atty. Fall Creek D. D., 10,000 ft. open ditch, incl. 35,780 cu.yd. excav., also 5,000 ft. levee, 36,630 cu.yd. excav. to M. W. O'Meara Quincy.

**Iowa**—See "Streets and Roads."

**Ia., Atlantic**—J. Ward, aud. Cass Co., Nishna Botna D.D. 7, point 11 mi. from here, 679,000 cu.yd. excav. in main ditch. 6,500 cu.yd. Lateral 1, and 51,300 cu.yd. Lateral 2, to J. Boyne Constr. Co., Council Bluffs at $0.0542 per cu.yd.

**Ont., Port Burwell**—Dominion Govt., Ottawa, improving harbor, here, to Port Arthur Constr. Co. Ltd., Excelsior Lift Bldg., Toronto, $435,600.

**Que., Petite Riviere St. Francois**—Dept. Pub. Wks., Ottawa, Ont., breakwater, here, to Aristide Maltais, La Malbaie, $16,370.

**Que., Valleyfield**—Dept. Pub. Wks., Ottawa, Ont., deepening entrance, here, to Les Chantiers Manasseau, Sorel, $40,000.

# Streets and Roads

## Bids Desired

**Massachusetts**—Dec. 27, by Dept. Pub. Wks., Boston, bituminous macadam paving 20,208 ft. highway in Townsend, 18 ft. W. F. Williams, comr.

**Massachusetts** — Jan. 3, by Dept. Pub. Wks., Boston, bituminous macadam paving 27,137 ft. highway in Bellingham and Franklin, 18 ft. W. F. Williams, comr.

**N. Y., Brooklyn**—Dec. 28, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading, curbing and flagging East 32nd St.; also grading, curbing and sheet asphalt on concrete paving Brooklyn, 11th, and Schenectady Aves., East 29th, East 34th, 50th, 74th, East 92nd Sts., etc.

**N. Y., Long Island City**—Dec. 24, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and granite block paving in railroad franchise area, Northern Blvd. from 82nd St. to Junction Blvd.

**N. Y., New York**—Dec. 27, by J. Miller, pres., Manhattan Boro, Municipal Bldg., grading and granite block paving Marginal and 43rd Sts.

**N. Y., New York**—Dec. 29, by A. Goldman, comr. Plant & Structures, Municipal Bldg., sidewalks and paving west end 155th St. viaduct.

**N. Y., Syracuse**—Dec. 27, by Bd. Contr. & Supply, City Hall, grading, vitr. brick, asphalt, bitulithic concrete or concrete paving Strathmore Park, Greenway, Euclid and Gordon Aves., Hudson, Craddock, Chemung, Winton and West Onondaga Sts.

**Md., Baltimore**—Dec. 28, by Bd. Awards, sheet asphalt paving 9,800 sq.yd. streets listed in Contr. 446. N. L. Smith, City Hall, highways engr.

**Ala., Birmingham**—Dec. 27, by Bd. Revenue, Jefferson Co., grading, curbing, guttering and asphaltic concrete on concrete paving, etc. 5,800 sq.yd. Ave. V, Ensley from Warrior Rd. to 48th St.; also grading, curbing, guttering and sheet asphalt or bitulithic on concrete paving, etc. 13,250 sq.yd. Ave. V, from 48th St. to South Park Rd. C. J. Rogers, co. highway engr.

**Ala., Birmingham** — Jan. 17, by Bd. Revenue, Jefferson Co., Court House, concrete or bituminous concrete paving, etc., 7,600 sq.yd. Gate City-Irondale Rd., and 6,000 sq.yd. roadway from Hollywood to Rosedale over Birmingham Water Works pipe line; also dismantling 100 ft. span bridge over Cahaba River, on Montgomery Highway, and re-erecting same at new site, etc. C. J. Rogers, co. highway engr.

**Louisiana**—Jan. 19, by State Hy. Comn., Baton Rouge, grading and graveling 4 mi. Bernice-Farmerville Highway, Project 554-B, and 7.178 mi. Farmerville-Bastrop Highway, Project 452-C, Union Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, state engr.

**O., Cincinnati**—Dec. 27, by Comrs. Hamilton Co., grading and tar bound macadam repaving, etc., 6,600 sq.yd. Neeb Rd. $25,031. E. A. Gast, Court House, engr.

**O., Cincinnati**—Dec. 27, by C. O. Sherrill, city mgr., City Hall, curbing, walks and granite repaving 5,800 sq.yd. (new block) and 5,700 sq.yd. (old block) 2nd St. $76,979; also grading, curbing, walks and concrete repaving, etc., 14,000 sq.yd. Glenmore Ave., $70,508.

**O., Cleveland**—Dec. 28, by City, paving, etc. 2 sections Warrensville Center Rd. To exceed $25,000. F. Lander, Court House, engr.

**Michigan**—Dec. 30, by R. W. Roberts, resident engr., 504 Eddy Bldg., Saginaw, grading 0.849 mi. Federal Aid. FO73-22-C-2, Saginaw Co., for State Hy. Dept., Lansing.

**Ill., Chicago**—Dec. 28, by City, at office Bd. Local Impvts., Room 207, City Hall, grading, sewers, 7 in. concrete paving, etc., portions 17 various alleys. G. A. Dahlberg, atty.

**Kan., Marion**—Jan. 5, by Clerk Marion Co., grading, etc., 6.278 mi. Project 72-D, 28 ft. C. M. Hartsock, Marion, engr.

**Mo., St. Louis** — Jan. 17, by Bd. Pub. Serv., 208 City Hall, asphalt paving Madison Ave. between Jefferson and Webster Sts., $47,320; and asphaltic concrete paving 4,570 sq.yd. Osceola St. $25,800, 2,340 sq.yd. Theodore St. $15,360, 3,385 sq.yd. Emma Ave. $22,800, 1,750 sq.yd. Rhodes St. $11,640, 2,975 sq.yd. Finkman St. $19,900, 2,600 sq.yd. Rhodes St. $17,480, and 1,700 sq.yd. Concordia St. $11,520. W. W. Horner, 300 City Hall, engr.

**Tex., San Antonio**—H. E. Dickinson, c/o Central Trust Bldg., San Antonio, taking bids and opens same about Dec. 15, approximately 100,000 sq.ft. concrete sidewalks and 31,000 lin.ft. standard concrete curbing $40,000; also 2 in. asphalt on crushed rock surfacing 75,000 sq.yd. various streets Woodlawn Dist., west section city $100,000, all above in connection with 100 acre land development. Private plans. Noted Oct. 27, under "Unclassified."

**Okla., Prague**—Dec. 30, by L. Newhouse, city clk., grading, curbing, guttering and 7 in. concrete paving 10,900 sq.yd. Park St. $33,200. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

**Calif., Alhambra**—City Clerk taking bids guttering, walks, 1½ in. oil macadam paving 3,244 ft. and 5 in. asphaltic concrete paving, etc., 135,906 sq.ft. Sierra Vista Ave., etc.

**Calif., Alhambra**—City Clerk taking bids curbing, oil macadam paving and 5- to 7-in. concrete paving, etc., 90,019 sq.ft. Ethel Ave., etc. Noted June 16.

**Calif., Redlands**—City Trustees taking bids curbing, guttering, walks and 5 in. macadam paving, etc., 92,700 sq.ft. Colton and East Citrus Aves., etc.

**Calif., San Diego**—Jan. 3, by Common Council, curbing, walks and 6 in. asphaltic concrete paving, etc., 125,310 sq.ft. Dewey and 26th Sts.; also curbing, walks and 7 in. concrete paving, etc., 511,807 sq.ft. Beardsley and 26th Sts. H. W. Jorgensen, city engr. Noted Nov. 24.

**Costa Rica, San Jose**—Apr. 30, by Dept. Pub. Wks., paving program, incl. 60,006 sq. meters asphalt on macadam paving, 60,000 sq. meters macadam paving, 3,000 sq. meters crushed rock fill, 8,000 ft. sewer and 1,500 ft. branch connections. S. L. Wilkinson, San Jose, Costa Rica, Amer. Vice Consul.

## Contracts Awarded

**New York**—A. W. Brandt, comr. Highways, Albany, concrete paving 6.29 mi. Highway 1760, Hopewell-Junction Millbrook Rd., Part 3, Dutchess Co., to Stewart Sand & Gravel Corp., Binghamton, $382,710 e. e. $538,259; 9.52 mi. Highway 8294-1773, Willard-Geneva Rd., Parts 1 and 2, Seneca Co., to Concrete Constr. Corp., Rochester, $339,562 e. e. $464,233; 6.3 mi. Highway 8293, Seventh Lake-Blue Mountain Lake Rd., Part 2-B, Hamilton Co., to Bricon Constr. Co., Inc., Indian Lake, $419,719 e. e. $558,564; 4.82 mi. Highway 5411, West Creek Rd., 457 Little Falls-Herkimer Rd., Repair Contr. 3191, Herkimer Co., to F. J. Downing, 13½ Swan St., Buffalo, $270,575 e. e. $367,846; 2.07 mi. Highway 5488, Patchogue-Moriches Rd., 5301 Bayshore-Brookhaven Town Line

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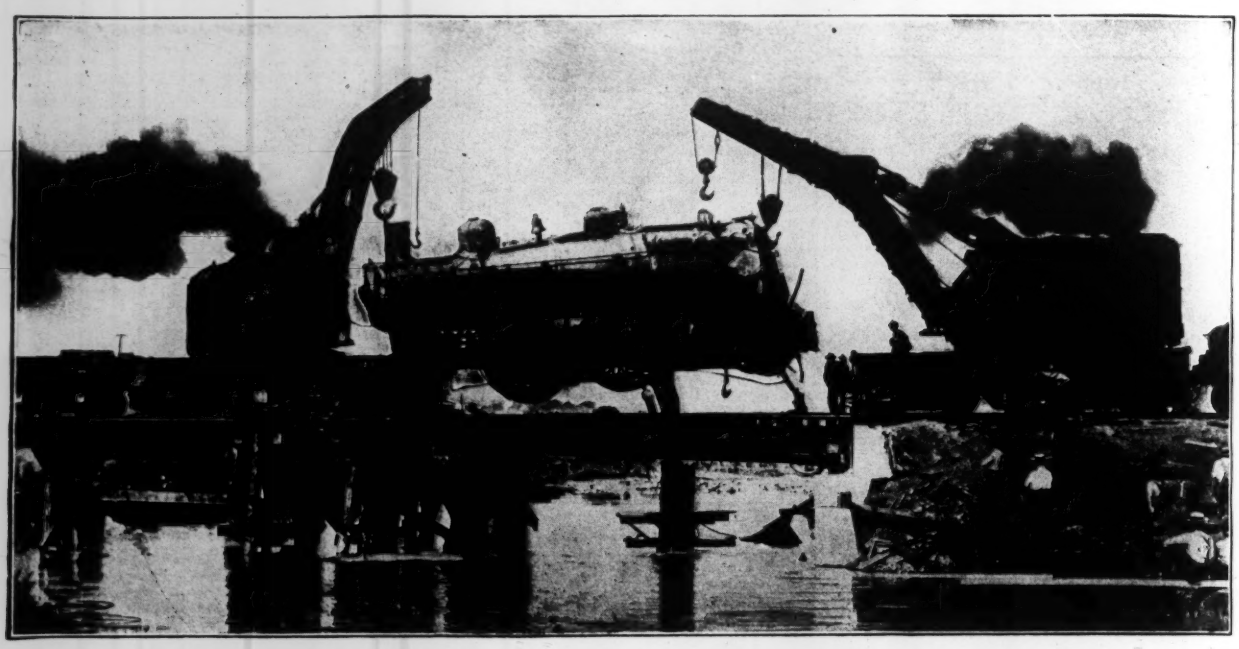
# Industrial Brownhoist Cranes Set the Standard ~ ~ ~ ~ ~ ~ For Speed, Length of Service ~ ~ ~ And Economy ~ ~ ~



Industrial and Brownhoist were the originators of the locomotive crane industry in this country. Today there are thousands of these cranes in use—far more than any other make. ¶The advantages of mere numbers are unimportant, but the knowledge gained from long experience can be obtained in no other way. ¶Today Industrial Brownhoist offers you by far the most complete line of similar equipment ever manufactured by one company; locomotive cranes ranging from 7½ to 60 tons, wrecking cranes from 75 to 200 tons, and shovels of ½ to 1¼ yards capacity. ¶Getting the right crane or shovel, the one best size and type for your work, is your best guarantee of satisfactory, economical handling. And Industrial Brownhoist is best qualified to furnish this for you.

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# INDUSTRIAL BROWNHOIST

Streets and Roads (Continued)

Rd., Suffolk Co., to Heling Contg. Corp., Bennett Pl., Lindenhurst, $142,291 e. e. $175,425; 1.33 mi. Highway 1845, Beaver St., Westchester Co., to J. L. Dugan, Inc., Little Britain Rd., Newburgh, $110,957 e. e. $138,646; and three 77½ ft. trusses and one 76 ft. bascule bridges on Highway 5716, Catskill-Village-Bridge St. Rd., Greene Co., to J. Johnson Constr. Co., 765 Abbott Rd., Buffalo, $218,213 e. e. $249,142. Grand total $1,884,027. Noted Nov. 10.

**N. Y., New York** — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., constructing road from Bronx River Parkway to East 233rd St., to Republic Eng. Co., 280 Madison Ave., $92,994; retaing wall on Sheridan Ave., to L. DiMinna, 366 Lorrilard Pl., $15,380; and sewer in Arnow Ave., to Fiorello, & Koch, 1895 Belmont Ave., $3,243. Grand total $111,617. Noted Dec. 1.

**N. Y., New York**—J. Miller, pres. Manhattan Boro, Municipal Bldg., widening and sheet asphalt on concrete paving 96th St., to C. D. Beckwith Co., Seneca Ave. and Edgewater Rd., $76,962. Noted Dec. 8.

**Pennsylvania**—State Hy. Comn., Harrisburg **(R. means Route)**, grading 26,479 cu. yd. R. 150, Bucks Co., to H. C. Ambler, 3717 York Rd., Phila., $21,230, and 8,661 cu.yd. R. 470, Mifflin Co., to J. M. Hutchinson, Altoona, $20,934; also grading and concrete paving 50,000 sq.yd. Rs. 520 and 525, Cambria, Westmoreland and Indiana Counties, to Hagedorn Constr. Co., Grafton, W. Va., $286,036, and 17,000 sq.yd. R. 302, Westmoreland Co., to E. H. Canon, McKeesport, $88,557. Grand total $416,757. Noted Nov. 3.

**North Carolina**—State Hy. Comn., Raleigh, grading, etc., 11.34 mi. Project 624, Catawaba Co., to N. L. Teer, Geer Bldg., Durham, $75,673. Noted Aug. 11.

**Ala., Birmingham**—City Comn., **(e.e. means engrs. est.)** curbing, guttering, walks and 2 in. asphalt on 6 in. concrete paving, etc. 7 blocks 12th St. W., 30 ft., and 2 in. asphalt on 6 in. concrete paving 4 blocks 11th St. and 2nd Ave. W., 40 ft., to W. J. Bryson, 239 West Adams St., Jacksonville, Fla., $41,615 and $21,687 respectively e.e. $42,000 and $22,100 respectively; also asphalt resurfacing 2 blocks 1st Ave. S., 40 ft., to Independent Paving Co., 3828 1st Ave., $6,798 e.e. $7,100. Grand total $70,100.

**Miss., Brookhaven**—Paving portion South 1st St., to Dunn Constr. Co., Jackson, $55,000.

**Miss., Jackson**—Grading, curbing, guttering and sidewalks on Gal Prentis and Greymont Sts., etc., to Owen & Gaddis, $15,966; guttering and sidewalks on Galveston St., to Dunn Constr. Co., Jackson, $1,334, Lexington St., to W. Ridgeway, Jackson, $2,659, and on Mill St., to Merrill Eng. Co., Jackson, $2,938. Grand total $22,897.

**Louisiana**—State Hy. Comn., Baton Rouge, grading and graveling 17.577 mi. Winnsboro-Columbia Highway, State Project 483, Franklin Parish, to W. C. Perry, Baton Rouge, $116,040. Noted Nov. 17.

**O., Columbus** — F. L. Donnally, clk. Franklin Co., grading and waterbound macadam on 6 in. concrete paving, etc. 3.279 mi. 2 sections Lithopolis Rd., 18 ft. to Neff & Rader, Circleville, $59,627; also bridge over Alum Creek, on Watkins Rd., to W. L. Savage, 211 South Richardson Ave., $7,833, both in Madison Twp. Noted Dec. 1.

**O., Willoughby**—Village, 8 in. concrete paving and 3,000 ft. 12- to 24-in. sewer in South Ave., to C. A. White Constr. Co., Willoughby. $51,000.

**Michigan**—R. R. Havens, resident engr., Jackson, concrete paving 10.138 mi. FO46-13, C-4, Lenawee Co., 20 ft., to State Constr. Div., C. M. Zeigler, supt., Capitol Natl. Bank Bldg., Lansing, for State Hy. Dept., Lansing, $383,097.

**Iowa** — State Hy. Comn., Ames **(P.P. Means Primary Project and F.P. Federal Aid Project)**, to Rock Island Cement Co., Rock Island, Ill., grading, concrete paving, etc. 15,371 sq.yd. Centerville Rd., P.P. 535-B, Appanoose Co., incl. 5 intakes, 1 flume basin, etc. $40,679, to C. F. Lytle Constr. Co., 625 Finance Bldg., Sioux City, 115,968 sq.yd. U. S. Road 30, P.P. 563, Harrison Co., 18 intakes, 9 flumes, etc. $295,172, 229,109 sq.yd. Algona Rd., F.P. 111, Kossuth Co., 4 intakes, 17 flumes, etc. $521,126, 195,500 sq.yd. Primary Road 141, P.P. 515, Monona Co., 87 intakes, 26 flume basins, etc. $508,559, and 130,220 sq.yd. Monona Rd., F.P. 2,Woodbury Co., 30 intakes, 33 flume basins, etc. $314,769, to Central Eng. Co., 809 Putnam Bldg., Davenport. 60,327 sq.yd. U. S. Highway 32, P.P. 523, Muscatine Co., 14 intakes, 14 flume basins, etc. $178,545, to Western Asphalt Paving Co., Sioux City, $163,592 sq.yd. Le Mars Rd., F.P. 38, Plymouth Co., 67 intakes, 11 flume basins, etc. $398,048; also to Woods Bros. Constr. Co., Lincoln, Neb., river bank protection along Des Moines, River, incl. 22 Woods Bros. steel currant retards complete in place, $12,383. Grand total $2,268,910. Noted Dec. 8.

**Minnesota**—State Hy. Comn., St. Paul **(F.A.P. means Federal Aid Project and S.P. State Project)**, to Nolan Bros., 18 North 2nd St., Minneapolis, concrete paving 20,200 sq.yd. S.P. 3-28, F.A.P. 263, 72,780 sq.yd. S.P. 3-29, Sect. 2, F.A.P. 394-B, and 71,990 sq.yd. S.P. 3-52, F.A.P. 394-A $233,735, 163,800 sq.yd. S.P. 40-21, Sect. 2, F.A.P. 384-A $224,412, 100,650 sq.yd. S.P. 50-21, F.A.P. 316, and 78,190 sq.yd. S.P. 50-24, F.A.P. 396 $233,558; also to E. W. Hallet, Crosby, 137,500 sq.yd. S.P. 12-25, F.A.P. 305 $184,018. Grand total $875,723. Owner furnishes cement. Noted Nov. 17.

**Kan., Howard** — Elk Co., grading and bridging 4.772 mi. K12, Project 164-C, to Kepler Bros., Kansas City, Mo., $37,496; and 2 bridges on same road to Western Bridge Co. Harrisonville, Mo. $36,954. Noted Dec. 1.

**Kan. Marion** — Clerk Marion Co., sand and gravel surfacing 10.747 mi. U. S. 50-N, Project 170, to San-Ore Constr. Co., McPherson, $21,055. Noted Nov. 17.

**Mo., Kirkwood**—Grading and concrete paving Geyer Rd. between Missouri Pacific R.R. tracks and Dougherty Ferry Rd., to Moore Bros., Constr. Co., 2000 St. Clair Ave., East St. Louis, Ill., $33,056; and paving Jewel Ave. between Harrison Ave. and point 139 ft. easterly, to J. Steuby, 208 North Kirkwood Rd., $517

**Ark., Conway**—Curbing, guttering and 6 in. concrete paving 8,400 sq.yd. Street Impvt. Dist. 11, to C. W. Jones, Conway. $21,496. Engr. est. $28,300.

**Texas**—R. A. Thompson, state highway engr., Austin, **(F. A. P. means Federal Aid Project, S. A. P. means State Aid Project, and e. e. means engrs. est.)**, to D. H. Purvis & Son, Box 706, Ft. Worth, grading and bridging 12.464 mi. State Highway 24, F. A. P. 527-B, Young Co., $35,325 e. e. $50,000, 8.978 mi. State Highway 79, F. A. P. 532-D, $22,077 e. e. $32,000, and 9.339 mi. State Highway 78, F. A. P. 532-C, $66,385 e. e. $70,000, both in Archer Co., to O. Speer, Alford, 12.596 mi. State Highway 24, F. A. P. 527-A, Young Co., $74,777 e. e. $90,000, and grading, etc., 6.05 mi. State Highway 39, S. A. P. 753-B, Wise Co., $30,667 e. e. $40,000; to A. A. Davis & Co., 495 Westover Bldg., Kansas City, Mo., grading, etc., 14.202 mi. State Highway 73-A, Austin Co., $59,265 e. e. $65,000, all foregoing 26 ft.; to Dexter Constr. Co., 605 North Texas Bldg., Dallas, crushed stone and caliche paving 13.122 mi. State Highway 18, S. A. P. 669, Schackelford Co., 18 ft., $49,571 e. e. $55,000. Grand total $338,067. Noted Dec. 1.

**Tex., Giddings**—R. A. Thompson, state highway engr., Austin, grading and bridging 8.623 mi. Highway 102, State Aid Project 734, 26 ft., Lee Co., here, to Hannah Constr. Co., Box 994, Waco, $25,059. Engrs. est. $30,000. Noted Dec. 1.

**Tex., Houston**—For 2½ in. vertical fibre brick paving approximately 10 blocks Canal St. from Houston Belt & Terminal Ry. tracks to 75th St., 42 ft., and brick on 8 in. concrete paving approximately 30,200 sq.yd. South Harbor Dr. from 69th St. Bridge to 75th St., to Smith Bros., 2402 West Dallas Ave., $108,473 and $112,191 respectively. Engrs. est. $115,000 and $120,000 respectively. Noted Nov. 17.

**Tex., Houston** — Harris Co., grading, bridging and concrete paving 4.658 mi. Highway 12, Federal Aid Project 512-B, 20 ft., to Gibson & Mitchell, Huntsville, $139,012. Engrs. est. $150,000. Noted Oct. 20.

**Okla., Shawnee** — Pottawatomie Co., gravel surfacing 7,800 cu.yd. West Highland Rd., Project 11, to Ellis & Lewis, Muskogee, $25,774, engrs. est. $27,000; and 19,000 cu.yd. Maude-Wye Rd., Project 9, to R. L. Davis, Madill, $41,237, engrs. est. $45,000.

**Okla., Snyder**—Grading and 6 in. concrete paving 6,960 sq.yd. Avenues A and B, to Highway Constr. Co., Kennedy Bldg., Tulsa, $26,218. Engrs. est. $28,000.

**Calif., Chula Vista**—Common Council, 5 in. asphaltic concrete paving, etc. 255,000 sq.ft. streets and alleys, to Miracle Constr. Co., 4500 Menlo Ave., East San Diego, $104,500.

**Calif., Los Angeles**—Grading and concrete paving, etc., Bluffside Dr. between Lankershim Blvd. and Vineland Ave., and Craner Ave. between Hatteras St. and Burbank Blvd., to J. L. McClain, 3452 West Slauson Ave., $38,727 and $45,962 respectively.

**Calif., Los Angeles**—Grading and concrete paving Garvey Ave. and Monterey Pass Rd., between Alhambra city limits and Floral Dr., also grading, 5 and 7 in. concrete paving, etc., 443,435 sq.ft. Sagamore Way and Ave. 40 Impvt. Dist., to McCray Co., 4482 East Worth St., $122,170 and $188,945 respectively. Noted Nov. 17 and Dec. 15.

**Calif., San Diego** — Improving Madison and Adams Aves., to B. Noble, Spreckels Bldg., $82,913 and $28,274 respectively; also Rosecrans St. et al., to D. H. Ryan, 1615 Fern St., $54,277. Grand total $165,464. Noted Oct. 13.

**Calif., San Diego** — Common Council, walks and 6 in. asphaltic concrete paving 135,945 sq.ft. Alabama St. and Monroe Ave., to D. H. Ryan, 1615 Fern St., $29,846. Noted Oct. 6.

**Calif., Santa Barbara**—Curbing, guttering and asphaltic concrete paving, etc. portions Valerio and Pedregosa Sts., etc., to C. T. Richardson, 525 East Haley St., $25,912. Noted Aug. 25.

# Buildings—Commercial

## *Proposed Work*

**Me., Bangor**—STORE and OFFICE—Coe Estate, c/o G. W. Banton, 116 Hammond St., takes bids about Jan. 1, 3 story and basement, 155 x 175 ft., brick, plain foundation, Main, Cross and Columbia Sts. $150,000. Crowell & Lancaster, Exch. Bldg., archts. Noted Nov. 17.

**Mass., Abington** (Ind. Sta. North Abington)—THEATRE and STORE—C. Kolodny, 7 Devotion St., Brookline, plans 1 and 2 story and basement, brick and steel, Washington St. and Central Ave. $150,000 or more.

**Mass., Jamaica Plain** (sta. Boston) — HOSPITAL — Faulkner Hospital, 1153 Centre St., takes bids about Jan. 5, 4 story and basement, 45 x 150 ft., brick addition, plain foundation, Centre St. $150,000. O. A. Thayer, 89 Franklin St., Boston, archt. Noted Aug. 11.

**Mass., Malden** (br. Boston)—APARTMENT—I. Rosenfield, c/o C. F. Springall, archt., 84 Sprague St., having plans prepared 5 story and basement, brick, plain foundation, Pleasant St. $150,000.

**Mass., Mattapan** (Sta. Boston)—HOSPITAL—City of Boston, Hospital Dept., Harrison Ave., plans Consumptive Hospital, addition, 249 River St., here. $150,000 or more. Engineer and architect not selected.

**Mass., Westboro**—TOWN HALL—Town, R. S. Newton, chn., 9 Central St., Boston, having preliminary sketches made by Kilham, Hopkins & Greeley, 9 Pearl St., Boston, town hall, Main St. $150,000.

**Mass., Winthrop** — HALL — Town, J. Remby, chn. building com., having plans prepared by W. N. Bacon, 27 Kilby St., Boston, 3 story and basement, brick and stone, plain foundation, Herman and Winthrop Sts. $175,000. Noted Sept. 22.

**Conn., New Britain** — APARTMENT — Owner, c/o M. Unklebach, archt., 52 Main St., having plans prepared 4 story, brick, steel and stone apartment. $200,000.

**Conn., West Haven** (br. New Haven)—APARTMENT—Carbonari & Montesi, 598 3rd Ave., having preliminary plans prepared by H. Cannici, 59 Center St., New Haven, 3 story, 65 x 115 ft., brick and steel, Martin and Main Sts. $150,000.

**N. Y., New York** — APARTMENT and STORE — Seventy-Nine West 162nd Street Corp., c/o H. Ginsberg, archt., 220 East 42nd St., had plans prepared 6 story and basement, 201 x 233 ft. apartment, and stone building, Woodycrest Ave. and 162nd St. $800,000.

**N. Y., New York**—LOFT—Rohr Realty Estate Co., 41 East 42nd St., c/o M. Rosenfeld, 41 East 42nd St., having plans prepared by Gronenberg & Leuchtag, 1385 Bway., brick and steel, 264 West 35th St. $500,000.

**N. J., Bayonne** — APARTMENT — L. Zeick. 739 Hudson Blvd., having plans prepared by M. Kraut, 14 Journal Sq., Jersey City, 4 story and basement, 50 x 140 ft., brick and steel, plain foundation, West 33rd St. $150,000.

**N. J., Belleville** (br. Newark)—APARTMENT—H. Tennenberg, 22 Fairchild St., Irvington, having plans prepared by Branch & Singer, 60 Park Pl., Newark. 5 story and basement, 90 x 100 ft., brick and steel, plain foundation, Tappen and Floyd Aves. $225,000.

**N. J., Belleville** (br. Newark)—HOSPITAL—Bd. Freeholders Essex Co. (Newark), E. L. Smith, supt., Soho St., having sketches made by Sutton, Sutton & Calkins, 402 Broad St., Newark, 4 story and basement, brick and steel, plain foundation, here. $1,000,000. Noted Sept. 29.

**N. J., Camden**—CITY HALL—Camden Co., City Hall, having plans prepared by

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Buildings—Commercial (Continued)

W. P. Laird, 34th and Spruce Sts., Phila., Pa., 4 story and basement city hall. $3,000,000.

**N. J., East Orange** — APARTMENT — Huegel & Clark, c/o Warren & Warren, archts., 31 Clinton St., Newark, having plans prepared 4 story and basement, 75 x 125 ft., brick and steel, plain foundation, 24 Grove St. $150,000.

**N. J., Hoboken**—APARTMENT—Hoboken Tennis Club, 903 Castle Point Terrace, plans 5 story and basement, brick and steel, plain foundation, south of Elysian Park. $250,000. Engineer and architects names withheld.

**N. J., Jersey City**—HOTEL—Universal Securities Co., H. W. Runyan, pres., 50 Journal Sq., having plans prepared by Thomas Martin & Kirkpatrick, 220 South 16th St., Phila., Pa., 17 story and basement, brick and steel, plain foundation, 2861-67 Hudson Blvd., here. $5,000,000. Noted Nov. 24.

**N. J., Newark**—APARTMENT—B. Goldberg, c/o Meyers, Bigelow & Shanley, archts., 24 Walnut St., having plans prepared 5 story and basement, brick and steel, plain foundation, Chancellor Ave. $150,000. Noted Nov. 3.

**N. J., Newark** — APARTMENT — W. Gornitsky, c/o M. Nadel & M. Fort, archt., 32 Hill St., having plans prepared 3 story and basement, brick and steel, plain foundation, 482-90 Roseville Ave. $150,000.

**N. J., Newark** — BANK — Washington Trust Co., 477 Broad St., having plans prepared by N. Harris, 24 Branford St., 2 story and basement, brick and steel, plain foundation. $150,000.

**N. J., Newark** — THEATRE — Fox Theatres, 850 10th Ave., New York City, takes bids about Jan. 15, theatre, here. T. W. Lamb, 844 8th Ave., New York City, archt. J. DiStasio, 136 Liberty St., New York City, engr. Noted Jan. 27.

**N. J., North Bergen** (Ind. br. Weehawken)—APARTMENT—S. Engel, 237 29th St., plans 5 story and basement, brick and steel, plain foundation, on 100 x 100 ft. site, Hudson Blvd. south of 39th St. $150,000. Engineer and architects names withheld.

**N. J., Somerville**—HOTEL—S. C. and M. Platt, 220 West 42nd St., New York City, having plans prepared by S. C. Platt, 220 West 42nd St., New York City, 3 story hotel and two hundred fifty 1½ story bungalows, all brick and timber, plain foundation, Southerland Heights. $1,000,000.

**N. J., Verona** (Ind. Bd. Montclair)—SANITARIUM—Bd. Freeholders Essex Co. (Newark) having plans prepared by Sutton, Sutton & Calkins, 402 Broad St., Newark, 3 story and basement, brick and steel, plain foundation, here. $1,000,000. Noted Sept. 8.

**Pa., Phila.** — EXCHANGE — Bell Telephone Co., 17th and Arch Sts., having plans prepared by J. T. Windrim, Commonwealth Bldg., 2 story and basement, rein.-con. and brick, plain foundation, 17th and Logan Sts. $150,000.

**Va., Richmond**—HOTEL, OFFICE and STORE—Davis Bros., Inc., 1716 Summit Ave., plans 4 story and basement, 75 x 125 ft., rein.-con., brick and stone, 5th and Franklin Sts. $250,000.

**N. C., Jackson Springs**—HEALTH RESORT—Jackson Springs & Bad Nauheim Corp. having plans prepared by G. Post & Son, 101 Park Ave., New York City, health resort, incl. large hotel, baths, etc. $1,250,000.

**Ky., Louisville** — APARTMENT and GARAGE—L. Jacobson & Sons (owners, archts. and engrs.), 1st and Gaul Sts., preparing plans 3 story and basement, brick and terra cotta apartment, and garages, Spring Dr. and Bonneycastle Ave. $200,000.

**O., Youngstown** — EXCHANGE — Ohio Bell Telephone Co., 4300 Euclid Ave., Cleveland, plans new exchange, Southern Blvd. and Labelle Ave., here. $450,000.

**Ind., Ft. Wayne**—APARTMENT—Owner, c/o L. E. Burkett, archt., 244 Farmers Trust Bldg., soon lets contract 2 story and basement, 107 x 123 ft., brick, steel and stone apartment. $150,000.

**Ind., Indianapolis**—HOSPITAL—Methodist Hospital, 16th and Capitol Sts., having plans prepared by D. A. Bohlen & Son, Majestic Bldg., 16 story and basement, 400 room, buff brick, steel and stone annex, incl. surgeries, diet kitchen and laboratories, Capitol Ave. $650,000.

**Mich., Ann Arbor**—BANK and OFFICE—First Natl. Bank soon takes bids 10 story and basement, rein.-con., brick and steel, plain foundation, Main and Washington Sts. Fry & Kasurin, Ann Arbor, archts. Noted Oct. 6.

**Mich., Birmingham**—STORE and OFFICE—Frank Couzens Co., 108 North Bates St., having plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, 2 story and basement, 56 x 190 ft., rein.-con., brick and steel, plain foundation, Bates St. $150,000.

**Mich., Detroit**—APARTMENT—Tibbits Hotel, Winder St., having plans prepared by E. T. Knope, 507 Scherer Bldg., 4 story and basement, 75 x 120 ft., rein.-con., brick and steel, plain foundation, Lincoln and Grand River Aves. $250,000.

**Mich., Highland Park** (br. Detroit) — APARTMENT—W. Berman, 509 Lafayette Bldg., Detroit, had plans prepared by C. N. Agree, 1140 Book Tower Bldg., Detroit, 4 story and basement, 83 x 180 ft., brick, steel and stone, plain foundation, Eason Ave., here. $160,000.

**Mich., Muskegon** — THEATRE — Continental Realty Co. plans 3 story and basement, 132 x 140 ft., rein.-con. and brick, plain foundation, 3rd and Western Sts. $500,000. Engineer and architect not announced.

**Ill., Chicago** — APARTMENT — Rebori, Wentworth, Dewey & McCormick, archts., 332 South Michigan Ave., soon take bids 13 story and basement, 70 x 80 ft., rein.-con., brick and stone, Banks and Astor Sts., for Syndicate, c/o architects. $500,000. Noted Nov. 17.

**Ill., Chicago**—APARTMENT—Two Hundred Twenty-Two Chestnut Street Buildnig Corp., c/o Rissman & Hirschfeld, archts., 228 North La Salle St., having plans prepared 19 story and basement, 65 x 110 ft., rein.-con., brick and stone, Chestnut and De Witt Sts. $2,250,000.

**Ill., Chicago**—BANK and OFFICE—Belmont-Sheffield Trust & Savings Bank, 1002 Belmont Ave., having plans prepared by J. A. Nyden, 190 North State St., 6 story and basement, 100 x 120 ft., rein.-con. and brick, plain foundation, Belmont and Sheffield Aves. $600,000.

**Ill., Chicago** — HOTEL — Lowenberg & Lowenberg, archts., 111 West Monroe St., soon take bids 12 story and basement, rein.-con., brick and stone, on 81 x 83 x 90 x 117 ft. site, Lincoln Ave., Wells and North Clark Sts., for Syndicate, c/o M. E. Feiwell, 11 South La Salle St. $1,000,000. Noted May 12.

**Ill., Chicago**—SANITARIUM—D. Wallace, archt., 22 West Monroe St., soon takes bids 6 story and basement, 43 x 128 ft., rein.-con., brick and stone, 2824 Prairie Ave. $300,000. Owner's name withheld. F. A. Randall, 160 North La Salle St., engr.

**Ill., Marion**—HOTEL—Manske & Bartling, archts., 410 North Euclid St., St. Louis, Mo., take bids about Jan. 1, 3 story and basement, rein.-con., brick and terra cotta, here, for Marion Hotel, Inc., c/o G. S. Jackman & Co., 1123 Boatmen's Bank Bldg., St. Louis, Mo. Archts. est. $150,000. Noted Aug. 18.

**Wis., Milwaukee** — APARTMENT — D. Rothman, 631 Walnut St., having plans prepared by W. Veewendaal, 4914 Washington Bldg., 5 story and basement, 108 x 110 ft., rein.-con. and brick, plain foundation, 50th St.

**Minn., Minneapolis** — HOSPITAL — Swedish Hospital, c/o W. Mills, supt., 10th Ave. S. and 7th St., having plans prepared by Magney & Tulser, 116 South 9th St., 4 story and basement, rein.-con., brick and stone addition, 10th Ave. S. and 7th St. $500,000.

**Kan., Salina** — HOTEL — B. H. Byrnes, archt., Natl. Bank of America Bldg., soon lets contract 7 story and basement, rein.-con., brick and steel, for W. E. Smither. $150,000.

**Mo., Columbia** — APARTMENT — F. W. Niedermeyer having plans prepared by Wallace & Sutter, 923 Rialto Bldg., Kansas City, 4 story and basement, 75 x 115 ft., terra cotta apartment. $150,000.

**Mo., Columbia** — THEATRE — Missouri Theatre, Inc., c/o D. Stone, 414 Exchange Natl. Bank Bldg., soon lets contract 2 story and basement, 142 x 160 ft., rein.-con., brick and terra cotta, 9th and Locust Sts. $200,000. Boller Bros., 114 West 10th St., Kansas City, archts.

**Ark., Little Rock**—JAIL—Pulaski Co., c/o C. P. Newton, judge, having preliminary plans prepared jail, $200,000, or 4th floor addition to courthouse, $300,000, rein.-con., brick and stone.

**Tex., Galveston** — HOTEL — W. L. Moody, Jr., and associates, having plans prepared by A. Frazier, Amer. Natl. Insurance Bldg., 11 story, 125 x 128 x 158 x 258 ft. rein.-con., brick, steel and terra cotta, Tremont St. and Boulevard. $1,000,000. Noted Dec. 15.

**Tex., Port Aransas** — WAREHOUSE — Vaughan Lumber Co., c/o Gibbs Bldg., San Antonio, having preliminary plans prepared fireproof warehouse, on Harbor Island, here. $175,000.

**Tex., San Angelo**—BANK, OFFICE and HOTEL—Concho Realty Co. having plans prepared by Korn & Morgan, San Angelo, 12 story and basement, 400 room, bank and office building, $700,000; and hotel, West Twohig Ave., Irving and Randolph Sts., $600,000.

**Okla., Oklahoma City**—AUTO SALES—Deignan Motor Co., 5th St. and Bway., having preliminary plans prepared 3 story and basement, 100 x 140 ft., rein.-con. and brick, plain foundation, 6th St. and Bway. $150,000.

**Okla., Oklahoma City**—STATIONS—See "Railways."

**Okla., Tulsa** — STATION — City voted $1,250,000 bonds, its share for union station. Total $3,000,000. C. Schultz, city engr. Noted May 5.

**Ore., Portland**—STORE and OFFICE—F. G. Mayer having plans prepared by Claussen & Claussen, McLeary Bldg., 4 or more story and basement, 100 x 100 ft., Bway. and Alder St. $150,000-$250,000.

**Calif., Compton**—MAUSOLEUM—Angles Abbey Mausoleum Park Co., Pacific South West Bank Bldg., Long Beach, having revised plans prepared and soon takes bids 1 story, 69 x 200 ft., rein.-con., here. $150,000. C. N. Aldrich, 1834 Dawson Ave., Long Beach, archt.

**Calif., Oakland** — THEATRE — Income Properties of California, Inc., 436 14th St., plans theatre, 17th St. near San Pablo Ave. $1,000,000. Engineer and architect selected soon. H. Duffy, c/o Alcazar Theatre, O'Farrell St. near Powell St., San Francisco, lessee.

**Calif., San Diego** — HOSPITAL — Mercy Hospital, 6th St. and Hillcrest Dr., had plans prepared by J. E. Loveless, 714 Chester Williams Bldg., Los Angeles, and soon takes bids (from selected list of contractors), 11 story, 45 x 100 ft., rein.-con., 6th St. and Hillcrest Dr. $300,000.

**Calif., San Francisco**—APARTMENT—Amer. Impvt. Co., c/o A. H. Larsen, archt., 447 Sutter St., had plans prepared 6 story, basement and sub-basement, concrete, California and Laguna Sts. $350,000.

**T. H., Honolulu** — STORE — Dillingham Co., c/o Walker & Elsen, archts., Western Pacific Bldg., Los Angeles, having preliminary plans prepared 4 story and basement, Class "A," here. $1,250,000.

**Que., Montreal**—MARKETS—City plans submitting referendum to ratepayers in January, markets. $1,000,000.

**Que., Montreal**—POSTAL STATION—Dept. Pub. Wks., Ottawa, Ont., soon takes bids brick, steel and stone addition to Postal Station A, St. James and Windsor Sts., here. $200,000.

**Ont., Windsor**—HOTEL—Greater Windsor Development Co., c/o Trace & Diehl, archts., 23 West Pitt St., having plans prepared 25 story and basement, rein.-con., steel and stone, caisson foundation, London St. $1,500,000.

**Ont., Hamilton** — HOME — City having plans prepared by W. J. Walsh, 304 Terminal Bldg., 3 story and basement, concrete, brick and stone addition to Home for Aged and Infirm, John St. N. $150,000.

**Ont., London**—HOTEL—London Hotel, R. Lussier, mgr., plans hotel addition. $150,000.

**Ont., Ottawa**—GARAGE and STABLE—Canada Bread Co. Ltd., 160 Avenue Rd., Toronto, plans 1 and 2 story, concrete and brick, Catharine St., here. $150,000. Engineer and architect not selected.

**Ont., Toronto** — APARTMENT — G. B. Patton, 85 Springmount Ave., had plans prepared 2 story and basement, 105 x 148 ft., brick and stone apartment. $150,000. Private plans.

**Ont., Toronto** — APARTMENT — A. R. Roberts, 86 Quebec Ave., having plans prepared by D. H. Burnham, 260 Lauder St., 40 x 150 ft., brick and stone, stone foundation, Spencer St. $150,000.

## *Bids Desired*

**Mass., Boston** — APARTMENT — See "Contracts Awarded."

**Mass., Everett** — APARTMENT — G. N. Prunier, c/o B. E. Porter, archt., 73 Tremont St., Boston, taking bids 4 story and basement, 55 x 105 ft., brick, plain foundation, Bway. and Chestnut Sts., here. $150,000. Noted Dec. 15.

**Mass., Leominster**—THEATRE—A. McEvoy taking bids 2 story, brick and steel, Mechanic St. $150,000. J. E. Kelly, 38 Chauncy St., Boston, archt. Noted Nov. 17.

**R. I., Providence**—COURT HOUSE—Jan. 10, by Providence County Comn., 4 story and basement, brick and steel, plain foundation, College, Benefit, Hopkins and South Main Sts. $3,500,000. Jackson, Robertson & Adams, Turks Head Bldg., archts. French & Hubbard, South St., Boston, Mass., engrs. Noted Aug. 18.

**Conn., Stamford**—HOTEL—G. H. Abbott, O. De L. Mayer & H. F. Hamburg, 155 East 42nd St., New York City, taking bids 6 story and basement, brick, River St. $300,-

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Buildings—Commercial (Continued)

000. L. M. Loeb, 49 Lawton St., New Rochelle N. Y., archt.

**N. Y., New York** — APARTMENT — See "Contracts Awarded."

**N. Y., Rochester** — APARTMENT — See "Contracts Awarded."

**N. J., Kearny** (mail Arlington) — APARTMENT—See "Contracts Awarded."

**N. Y., White Plains**—CENTER—Jan. 16, by J. Downer, ch. engr., at office Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, constructing Westchester County Center Bldg., here, Contrs. 125, 125-P, 125-H, and Contr. 125-E; adv. E. N.-R. Dec. 22. Noted Oct. 20.

**Pa., Mayview**—HOME and HOSPITAL—Jan. 9, at office City Controller, City-County Bldg., Pittsburgh, altering and constructing additions to home and hospital, here, for Dept. Pub. Welfare, B. F. Rauh, dir. Eric Fisher Wood & Co., 233 Oliver Ave., Pittsburgh, archts. Noted Sept. 15.

**Pa., Phila.**—APARTMENT—See "Contracts Awarded."

**Pa., Phila.**—STORE—Dec. 28, by Simon & Simon, archts., 249 South Juniper St., 10 story, mezzanine, basement and sub-basement, 56 x 104 ft., rein.-con., brick and steel, plain foundation, 13th and Chestnut Sts., for Blum Store, M. Spector, 13th and Chestnut Sts.

**La., Lake Charles**—BANK—Jan. 4, by Favrot & Livaudais, archts., Hibernia Bank Bldg., New Orleans, 2 story and mezzanine, 70 x 157 ft., rein.-con., and brick, plain foundation, Pujo and Ryan Sts., here, for Calcasieu Natl. Bank. $250,000. Noted Nov. 17.

**Mich., Battle Creek**—SANITARIUM—M. J. Morehouse, archt., 343 South Dearborn St., Chicago, Ill., taking bids 4 story and basement, 120 x 180 ft., rein.-con., brick and steel addition, incl. service building, plain foundation, Washington Ave., here, for Battle Creek Sanitarium, Washington Ave. $200,000.

**Mich., Detroit** — APARTMENT — See "Contracts Awarded."

**Mich., Detroit**—HOTEL—Holden Owosso Hotel, Owosso, taking bids 6 story and basement, rein.-con., brick, steel and stone, plain foundation, here. $350,000. B. K. Gibson, 624 Michigan Ave., Chicago, Ill., archts.

**Mich., Eloise**—HOSPITAL—Dec. 27, by Supt. Poor, Wayne Co., County Bldg., Detroit, 4 story and basement, 275 bed capacity, rein.-con., brick and steel, plain foundation, Michigan Ave., here. $500,000. Maul & Lentz, David Whitney Bldg., Detroit, archts. Noted June 23.

**Mich., Flint**—APARTMENT—See "Contracts Awarded."

**Ill., Chicago** — APARTMENT, STORE, etc.—A. S. Alschuler, archt., 28 East Jackson Blvd., taking bids 3 story and basement, 100 x 140 ft., rein.-con., brick and terra cotta, 5449-46 West Madison St., for J. Kulp & Co., 19 South La Salle St. $300,000 Noted Oct. 13.

**Wis., Milwaukee** — APARTMENT — See "Contracts Awarded."

**Wis., Milwaukee**—THEATRE—Backes & Uthus, archts., 208 3rd St., taking bids 2 story and basement, 140 x 140 x 280 ft., rein.-con. and brick, plain foundation, Meinecke Ave., Fond du Lac and 22nd Sts., for Great Western Investment Co., R. J. Teske, secy., 1540 Hopkins St.

**Kan., Salina**—HOTEL—B. H. Byrnes, archt., Natl. Bank of America Bldg., taking bids 7 story and basement, rein.-con., brick and steel hotel, for W. E. Smither, Salina. $150,000.

**Tex., San Angelo** — EXCHANGE — San Angelo Telephone Co., c/o J. Y. Rust, pres., taking bids 2 story (ultimately 6 story) and basement, 75 x 126 ft., rein.-con., brick, steel and stone exchange. $200,000. Lang & Witchell, 300 Amer. Exch. Bank Bldg., archts.

**Calif., Los Angeles** — APARTMENT — Fidelity Holding Corp. taking bids (selected list of contractors), 5 story, 60 x 120 ft., cast stone and stucco, 607 South Kenmore Ave. $300,000. S. C. Lee, Petroleum Securities Bldg., archt.

**Calif., Los Angeles** — EXCHANGE — Pacific Telephone & Telegraph Co., 740 South Olive St., taking bids (from selected list of contractors), 1 story, 100 x 190 ft., rein.-con., Magnolia St. near Bahman Ave., in North Hollywood, near here. $150,000.

**Ont., Toronto** — OFFICE — Dec. 27, by Chapman & Oxley, archts., Northern Ontario Bldg., superstructure 22 story and basement, 170 x 186 ft., rein.-con., brick, steel and stone, for Star Publishing Co., 70 King St. W. Archts. est. $3,000,000. Noted Dec. 8.

## *Contracts Awarded*

**Mass., Boston** — APARTMENT — J. P. Kenney, 2071 Centre St., West Roxbury, will build 3 story and basement, 100 x 100 ft., brick and stone, plain foundation, South and Conway Sts., here. $150,000. Work will be done by separate contracts.

**Mass., Boston**—STORE and OFFICE—E. S. Welch, 73 Tremont St., 6 story and basement, brick and stone, plain foundation, 143 Newbury St., to J. M. and C. J. Buckley Co., 183 Essex St. Archts. est. $150,000.

**N. Y., New York**—APARTMENT—Tudor City-Fifth Unit, Inc., 350 Madison Ave., will build 10 story, 85 x 128 ft., brick and steel, 315 East 43rd St. $850,000. Work will be done by separate contracts. F. F. French, 350 Madison Ave., archt.

**N. Y., New York**—APARTMENT—Oneh Building Corp., will build 5 story and basement, 50 x 85 ft., brick and steel, Burke and Wallace Aves. $180,000. Work will be done by separate contracts. Bates & Franklin, 2526 Webster Ave., archts.

**N. Y., New York** — APARTMENT — Alcassam Building Corp., 219 East 196th St., will build 79 x 104 ft. apartment, 235th St. and Carpenter Ave. $185,000. Work will be done by separate contracts. Gluck & Dumas, 400 East Fordham Rd., archts.

**N. Y., New York**—APARTMENT—One Hundred Seventy-Eighth St. and Hughes Ave. Corp., 563 Tremont Ave., will build 6 story apartment, Hughes Ave. and 178th St. $200,000. Work will be done by separate contracts. L. Pisciotta, 563 Tremont Ave., archt.

**N. Y., New York** — APARTMENT — Brentford Realty Corp., 17 East 42nd St., 6 story and basement, 100 x 125 ft., brick and timber, 226 East 70th St., to Brenford Constr. Co., 17 East 42nd St. $250,000.

**N. Y., New York** — APARTMENT — Pierce Builders, Inc., 206 Rush St., will build 6 story, 90 x 100 ft. apartment, Wallace and Arnow Aves. $180,000. Work will be done by separate contracts. Franklin & Bates, 2526 Webster Ave., archts.

**N. Y., New York**—APARTMENT—S. G. and L. Constr. Co., 344 East 149th St., will build 6 story, 87 x 100 ft. apartment, Fox and 167th Sts. $150,000. Work will be done by separate contracts. S. F. Oppenheim, Inc., 156 East 42nd St., archt.

**N. Y., New York**—GARAGE—Kent Automatic Parking Garage, Inc., M. A. Kent, pres., 350 Madison Ave., 24 story, 50 x 200 ft. garage, 209-11 East 43rd St., to F. T. Ley Co., 578 Madison Ave. Archts. est. $1,250,000. Noted July 14.

**N. Y., New York** — OFFICE — Courtlef Realty Corp., A. E. Lefcourt, pres., 1351 Bway., will bulid 26 story, 111 x 197 ft. office buliding, 263 7th Ave. $3,500,000. Work will be done by separate contracts. Buchman & Kahn, 49 West 45th St., archts.

**N. Y., Rochester** — APARTMENT — L. Brotsky, 425 Hollenbeck St., will build 4 story and basement, 75 x 150 ft., brick and steel, plain foundation, East Ave. $500,000. Work will be done by separate contracts. W. J. Fuehrer, 205 Clifford Ave., archt.

**N. J., Kearny** (mail Arlington) — APARTMENT — Garfield, Inc., J. H. Mularkey, pres., 471 Kearny Ave., will build 4 story and basement, 80 x 125 ft., brick and steel, plain foundation, Davis Ave. $150,000. Work will be done by separate contracts. M. A. Wolf, 845 Broad St., Newark, archt. Noted Dec. 15.

**N. J., Newark**—APARTMENT—C. Riess, 262 Ellery Ave., will build 4 story and basement, 100 x 125 ft., brick and steel, plain foundation, 197-201 Highland Ave. $200,000. Work will be done by separate contracts. M. Nadel & M. Fort, 32 Hill St., archts. Noted Dec. 8.

**N. J., West Orange** (br. Orange) — THEATRE, STORE and APARTMENT—S. and B. Holding Co., I. Seiler, pres., 545 Bway., Bayonne, general contract 2 story and basement, 125 x 175 ft., brick and steel, plain foundation, Valley Rd. near Freeman St., to Economy Constr. & Realty Co., 28 William St., Newark. Archts. est: $150,000. Noted Aug. 4.

**Pa., Phila.** — APARTMENT — M. S. Kirschner, 2419 North 56th St., will build 4 story and basement, 98 x 149 ft., brick, plain foundation, Vernon Rd. and Crittendon St. $150,000. Work will be done by separate contracts. J. E. Fieldstein, Otis Bldg., archt.

**Pa., Phila.**—APARTMENT—A. W. Hall, archts., 15th and Locust Sts., 21 story and basement, 47 x 117 ft., rein.-con., brick and steel, plain foundation, 13th and Chanceller Sts., to F. V. Warren Co., 1913 Arch St. Noted Nov. 3.

**Ala., Montgomery** — HOTEI — Capital City Hotel Co., Jefferson Davis Hotel, 11 story and basement, 75 x 100 ft., brick, steel and concrete, to Hugger Bros. Constr. Co., Montgomery, $1,000,000. Noted Mar. 31.

**Tenn., Nashville** — HOSPITAL — St. Thomas Hospital, Hayes St., remodeling and constructing concrete and brick addition, to Foster & Creighton Co., 4th and 1st Natl. Bank Bldg., approximately $200,000.

**Ind., Hammond** — APARTMENT — N. Kaplan, 416 Sheridan Ave., Whiting, general contract 3 story and basement, rein.-con., brick and terra cotta, Robertsdale, here, to Milda & Son, 22 154th Pl., Calumet City. Archts. est., $150,000.

**Ind., Indianapolis**—APARTMENT and GARAGE—W. H. Hanning, 909 East Maple Rd., general contract 3 story and basement, rein.-con., brick and steel, 64 x 315 ft. site on 5700 East Washington St., to Southern Building & Realty Co., 330 Amer. Central Life Bldg. Archts. est. $165,000.

**Mich., Detroit** — APARTMENT — D. Fidler, 4831 Fullerton Ave., will build 3 story and basement, 85 x 110 ft., brick and steel, Alter Rd. Archts. est. $150,000. Work will be done by separate contracts. R. J. West, Lightner Bldg., archt.

**Mich., Detroit**—GARAGE—Detroit Garages, 510 Cass Ave., 10 story and basement, 130 x 160 ft., rein.-con. and brick, plain foundation, Cass Ave., to H. G. Christman Burke Co., 315 Stevens Bldg. Archts. est. $400,000. Noted Nov. 17.

**Mich., Flint**—APARTMENT—W. S. Tremaine, 517 Dryden Bldg., will build 3 story and basement, rein.-con., brick and steel, plain foundation, Avenue A. Work will be done by separate contracts. Archts. est. $150,000. Private plans.

**Ill., Chicago**—APARTMENT—J. Cohen & Co., archts., 160 North La Salle St., masonry and carpentry contract 7 story and basement, 50 x 125 ft., rein.-con., brick and terra cotta, 5036 Sheridan Rd., to C. E. Erickson, 4753 Bway.; terra cotta, to Northwestern Terra Cotta Co., Clybourne Ave.; plumbing, to T. H. Litvin Plumbing Co., 3306 Armitage Ave.; and heating, to C. H. Ehrlick & Co., 121 North Jefferson St. Archts. est. $400,000. Noted Dec. 1.

**Ill., Downers Grove** — THEATRE and STORE — Van Gunten & Van Gunten, archts., 26 East Huron St., Chicago, general contract 6 story and basement, rein.-con. and brick, Main St., here, to P. J. Schless, Downers Grove, for C. H. Bunze. Archts. est. $500,000. Noted Oct. 6.

**Wis., Milwaukee**—APARTMENT—Associated Owners, c/o H. L. Kuehnel, engr., 4625 Woodlawn Court, will build 6 story and basement, 65 x 120 ft., rein.-con. and brick, plain foundation, 15th St. $225,000. Work will be done by separate contracts.

**Wis., Milwaukee** — APARTMENT — Marshall, Inc., general contract 8 story and basement, 88 x 89 ft., rein.-con. and brick, 460 Marshall St., to S. M. Siesel, 160 Ogden Ave. Archts. est. $200,000.

**Tex., Corpus Christi** — HOTEL — Smith Bros. & Nixon and Associates, general contract 10 story and basement, approximately 24,000 sq.ft. floor space, rein.-con. and brick, plain foundation, to McKenzie Constr. Co., c/o Travis Bldg., San Antonio, approximately $600,000.

**Okla., Shawnee** — BANK — State Natl. Bank, general contract 4 story and basement, 50 x 140 ft., rein.-con. and brick, plain foundation, Beard St., to G. P. Carr, Shawnee $140,000.

**Tex., Stinnett**—COURTHOUSE—R. A. Goodwin, judge Hutchinson Co., 3 story, part basement, brick and rein.-con., plain foundation to C. S. Lambie & Co. of Amarillo, $341,888. Noted Nov. 17.

**Ariz., Phoenix**—OFFICE—Security Investment Co., 8 story and basement, 120 x 138 ft., rein.-con., brick and stone, Phoenix, St., to Edwards, Wildey & Dixon, Edwards & Wildey Bldg., Los Angeles, Calif. Archts. est. $600,000. Noted Sept. 8.

**Calif., Oakland**—STORE—H. C. Capwell Co., 14th and Clay Sts., 4 story, (ultimately 10 story), basement and sub-basement, steel and rein.-con., 20th and Bway. Sts., to P. J. Walker Co., Sharon Bldg., San Francisco, approximately $3,000,000. Noted Nov. 24.

**Calif., San Francisco** — APARTMENT — One Thousand Seventy-Six, Inc., E. B. DeSurville, 110 Sutter St., 14 story and basement, Chestnut St., to Dinwiddie Constr. Co., Crocker Bldg., approximately $750,000.

**Calif., San Francisco**—APARTMENT—E. Stempel, 811 Hearst Bldg., 6 story and basement, rein.-con., Scott St. near Haves St., to R. J. Stempel, 811 Hearst Bldg., $150,000.

**Calif., San Francisco**—APARTMENT—J. L. Stewart, Claus Spreckels Bldg., 10 story and basement, Stockton St. near Pine St., to E. K. Nelson, 77 O'Farrell St., approximately $300,000. Noted Dec. 15.

**Calif., San Francisco**—APARTMENT—A. Raymond, 6 story and basement, rein.-

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Buildings—Commercial (Continued)

con., Fell and Franklin Sts., to Barrett & Hilp, 918 Harrison St., $200,000.

**Calif., San Francisco**—APARTMENT—Lincoln Investment Co., c/o A. H. Larsen, archt., 447 Sutter St., 6 story and basement, steel and rein.-con., Pine St. near Hyde St., to J. A. Johnson, Russ Bldg., $165,000. Noted Dec. 1.

**Calif., San Francisco**—OFFICE and MEDICAL—A. H. Bergstrom, 74 New Montgomery St., 3 story addition to present 4 story building, Van Ness Ave. and Jackson St., to C. L. Wold, 185 Stevenson St., approximately $350,000. Noted Sept. 29.

**Ont., Corbyville**—WAREHOUSE—Canadian Industrial Alcohol Co., general contract 9 story and basement, 90 x 180 ft., rein.-con. and brick, plain foundation, to Foundation & Constr. Co. of Ontario, Temple Bldg., Toronto. Engrs. est. $200,000. Noted Nov. 17.

**Ont., Ottawa**—OFFICE and STORE—J. A. Evart, archt., Jackson Bldg., Bank St., 10 story and basement, rein.-con., brick and steel, Wellington St., to A. Garvock, Regent Bldg., Bank St., for Wellington Investment Co., Ltd., 128 Wellington St. Noted Nov. 3.

**N. S., Halifax** — HOTEL — Lord Nelson Hotel Co., 339 Roy Bldg., general contract 7 story and basement, 200 room, rein.-con., brick and steel, Spring Garden Rd. and South Park St., to H. L. Stevens & Co., 19 Melinda St., Toronto, Ont.; excavation to McDonald Constr. Co., Pickford and Blacks Wharf. Archts. est. $1,250,000.

# Buildings—Industrial

## *Proposed Work*

**Mass., Boston**—GARAGE and REPAIR SHOP — Edison Electric & Illumniating Co. ,39 Boylston St., having plans prepared by Bigelow & Wadsworth, 3 Hamilton Pl., 1 story, 120 x 120 ft., rein.-con. and steel, plain foundation, 1165 Massachusetts Ave.

**Mass., Brighton** (Boston P. O.)—PLANT —Albany Carpet Cleaning Co., 18 Penniman Rd., plans 2 story timber addition. $40,000 or more. Private plans.

**Conn., Hartford**—GARAGE and SHOP—Yellow Cab Co., 214 Farmington Ave., plans 2 story, brick, High St. To exceed $40,000. Engineer and architect not selected.

**Conn., New Haven**—POWER STATION —United Illuminating Co., 84 Temple St., having plans prepared by Westcott & Mapes, 139 Orange St., 1 story, 185 x 200 ft., brick, rein.-con. and steel power station. To exceed $40,000.

**N. Y., Rochester**—FUR STORAGE and STOCK ROOMS, etc.—G. F. Lorenz, archt., 331 Alexander St., soon takes bids 3 story and basement fur storage, stock room and cafeteria, brick and steel, plain foundation, East Main St., for Staub & Son, 951 East Main St. $40,000.

**N. J., Hoboken** — BAKING PLANT — Continental Baking Co., 740 Clinton St., plans 4 story and basement, rein.-con. and brick, plain foundation, 14th St. and Park Ave. $150,000. Engineer and architect not selected.

**N. J., Newark**—LEATHER MANUFACTURING PLANT—Jiegel Eisman & Co., 99 Frelinghuysen Ave., plans 2 story and basement, brick and steel, plain foundation, 105 Frelinghuysen Ave. $40,000. Engineer and architect not selected.

**N. J., Woodbridge** — POTTERY FACTORY — Woodbridge Ceramics Co. plans brick and steel, plain foundation. $200,000. Engineer and architect not selected.

**O., Cincinnati**—SLAUGHTER HOUSE—H. H. Meyer Packing Co., Central Ave. and Linn St., having plans prepared by Tietig & Lee, 34 West 6th St., 4 story and basement, brick and rein.-con., plain foundation, Bank St. $400,000.

**O., Cleveland**—FACTORY—Forest City-Wolworth Run Foundries Co., c/o P. Schmidt, archt., 4500 Euclid Ave., had plans prepared 2 story and basement, 82 x 110 ft., brick and steel, West 27th St. and Swift Ave. $50,000.

**O. Dayton**—FACTORY—Dayton Friction Toy Co., Hawthorne and Albany Sts., R. B. Mundy, pres. and genl. mgr., plans new factory unit, Hawthorne and Albany Sts. $40,000.

**Mich., Kalamazoo** — PAPER PLANT — Kalamazoo Vegetable Parchment Co. having plans prepared 3 story, 90 x 300 ft. paper treating plant, rein.-con., and brick, plain foundation. Private plans.

**Kan., Manhattan** — POWER HOUSE — Kansas State Agricultural College, H. E. Schrack, bus. mgr., soon lets contract 3 story and basement, 51 x 201 ft., and 81 x 108 ft., rein.-con., steel and native stone power house. $325,000. C. D. Cuthbert, State House, Topeka, archt.

**Colo., Denver**—BAKERY—Denver Bread Co., 600 West 12th Ave., plans new bakery. $45,000.

**Colo., Devine** (mail North Avondale) — BOOSTER COMPRESSING PLANT — Colorado Inter-State Gas Co. (controlled by Prairie Oil & Gas Co., Amarillo, Tex.), having plans prepared booster compressing plant on natural gas line. $700,000. Ford, Bacon & Davis, Inc., 115 Bway., New York City, engrs.

**Tex., Big Springs**—WAREHOUSE, MILL, etc.—Sweetwater Cotton Oil Co., c/o R. G. Simmons, Sweetwater, having plans prepared warehouse, feed mill and thresher, here. $40,000. Private plans.

**Tex., San Angelo**—GARAGE—S. Koeningham & C. Taylor plan garage, repairing and storage. $40,000. Engineer and architect selected soon.

**Ore., St. Helens**—PAPER MILL—C. R. McCormick Lumber Co., H. F. McCormick, vice-pres., plans paper mill, on Columbia River. $3,000,000. Engineer and architect not selected.

**Calif., Los Angeles** — FACTORY — See "Contracts Awarded."

**Calif., San Francisco** — FACTORY — Western Tallow Co., Davidson and Lane Sts., plans rebuilding factory, Davidson Ave., recently destroyed by fire. To exceed $50,000.

**Man., Winnipeg** — PLANT — Canada Cement Co. Ltd., Philips Sq., Montreal, Que., plans large plant addition, here. $500,000.

**Sask., Estevan** — POWER PLANT — Northern Light & Power Co., Bismarck, N. D., plans power plant, here. $5,000,000.

## *Bids Desired*

**Me., Westbrook**—MILL—See 'Contracts Awarded."

**Conn., New Britain**—GARAGE—M. Kennedy, 31 Lafayette St., taking bids 2 story, 82 x 136 ft., rein.-con., brick and steel, Hartford Ave. $50,000 Storrs & Fienberg, 1127 Main St., Hartford, archts.

**N. J., Orange**—FELT MANUFACTURING PLANT—See "Contracts Awarded."

**Mich., Detroit**—FLOUR MILL—Jan. 17, by Fraser Co., engrs., 667 East Water St., Milwaukee, Wis., 5 story, 46 x 92 ft., rein.-con., brick and steel top addition, plain foundation, here. Randolph St., for Commercial Milling Co., 203 Randolph St. $65,000.

**Ill., Schiller Park**—PLANT—Bohnsack Brick Co. taking bids 1,057 ft. steel shed, 40 x 356 ft. machine house, 36 x 100 ft. machine shop, and 151 x 214 ft. drying plant, Irving Park Blvd. $750,000. W. Carpenter, c/o owner, engr.

**Tex., Ft. Worth**—PLANT—Jan. 22, by Montgomery Ward & Co., Chicago Ave. and Larr St., Chicago, Ill., (from selected list of contractors), 8 story, U-shaped, 220 x 360 ft., brick, terra cotta and rein.-con., Camp Bowie Blvd. between Carrol St. and St. Louis & San Francisco Ry. tracks. Private plans. $2,000,000. Noted Dec. 1.

**Tex., Ingleside**—OIL REFINERY—See "Contracts Awarded."

**Calif., Fresno** — ICE PLANT — Pacific Fruit Express Co., 65 Market St., San Francisco, taking bids 165 x 440 ft., rein.-con., here. To exceed $500,000. Private plans.

**Calif., Los Angeles**—FACTORY—Firestone Tire & Rubber Co., South Main St., Akron, O., taking bids (1st unit) incl. 4 story, 100 x 380 ft. warehouse, 80 x 100 ft. mechanical building and 103 x 113 ft. power house, Manchester Ave. and Alameda Sts., here approximately $1,000,000. Plans later 1 and part 2 story, 380 x 425 ft. factory, 2 story, 50 x 260 ft. office building, all foregoing steel and rein.-con., here. Total $7,000,000.

**South America, Colombia, Medellin** — POWER HOUSE, etc.—Dec. 31, by Municipality, hydro-electric scheme, incl. electric power house, transmission lines, electric generators, transformers, wires, telephones, etc.

## *Contracts Awarded*

**Me., Bath** — GARAGE, REPAIR SHOP, etc. — Lewiston Buick Co., C. L. Curtis, mgr., 65 x 125 ft. garage showroom and repair shop, Commercial St., to D. Lemieux, 15 Russell St., Lewiston. Archts. est. $40,000.

**Me., Portland**—PLANT—Winslow & Co., Inc., Forest Ave., reconstructing 4 story, brick, plain foundation, recently destroyed by fire, to Googins & Clark, 46 Portland St. Archts. est. $250,000. Noted Dec. 8.

**Me., Westbrook**—MILL—S. F. Warren Paper Mill will build 2 story addition, by day labor. Private plans. Noted June 2.

**Mass., Cambrdige** (Boston P. O.)—AUTO BODY SHOP—Cambridge Sheet Metal Co., 295 Franklin St., 1 story, 60 x 85 ft., brick, plain foundation, Franklin St., to M. W. Ryan, 763 Massachusetts Ave.

**Mass., Cambridge** (br. Boston)—REPAIR and SERVICE GARAGE—Auto Windshield Garage, c/o H. H. White, had plans prepared 2 story, rein.-con. and steel, plain foundation, University Pl. To exceed $40,000. Private plans.

**Mass., Cambridge** (br. Boston) — REPAIR and SERVICE GARAGE — Auto Windshield Garage, H. H. White, University Rd., 2 story, rein.-con. and steel, plain foundation, 25-31 University Rd., to J. W. Bishop Co., 683 Atlantic Ave., Boston. To exceed $40,000. Noted Dec. 15.

**Mass., Cambridge** (Boston P. O.)—WAREHOUSE, etc.—Jordan Marsh Co., 450 Washington St., Boston, altering and constructing 95 x 380 ft. top addition, Memorial Dr., to M. C. Tuttle Co., Park Sq. Bldg., Boston. Archts. est. $150,000 or more.

**Mass., Quincy** (Ind. br. Boston)—FACTORY—Boston Gear Wks., 28 Haywood Pl., 3 story, 65 x 95 ft., brick and timber, plain foundation, Haywood Pl., to Clark & Smith, 13 Temple St. Archts. est. $50,000.

**N. Y., Hoosick Falls** — PLANT — Twin States Gas & Electric Co., 510 Main St., Bennington, Vt., plant, here, to M. C. Tuttle Co., Park Sq. Bldg., Boston, Mass. Archts. est. to exceed $40,000.

**N. J., Camden** — BUS GARAGE — Pub. Serv. Ry. Co., 80 Park Pl., Newark, 1 story and basement, 187 x 353 ft., rein.-con., brick and steel, concrete pile foundation, 16th and Mickle Sts., to Bennett-McLaughlin Co., 3434 Sansom St., Phila., Pa.

**N. J., Orange**—FELT MANUFACTURING PLANT—Blue Ribbon Felt Co., Inc., 63 Cordier St., Irvington, 1 story and basement, 15 x 110 x 190 x 240 ft., brick and steel, plain foundation, here, to J. F. Mitchell & Co., 30 Church St., New York City. $40,000.

**N. J., Deep Water Point** (mail Penns Grove)—STEAM POWER PLANT—Amer. Gas & Electric Co., 30 Church St., New York City, awarded contract for design and construction steam power station, incl. two 50,000 kw. units, etc., here, to Stevens & Wood, Inc., 120 Bway., New York City. Engrs. est. $10,000,000 or $11,000,000. Total expenditure $20,000,000.

**Ala., Alabama City** — POWER PLANT, etc.—Gulf States Steel Co., power plant, coke ovens and finishing mills, etc., to Dwight P. Robinson, Inc., 129 East 46th St., New York City. Engrs. est. $3,000,000.

**Miss., Water Valley**—CHEESE FACTORY—H. K. Hunter, mgr. Yolobusha Milk Products Co., general contract 2 story cheese factory, brick and timber, to J. Cole, Water Valley. $31,448. Noted Oct. 27.

**La., Lake Charles**—ICE PLANT—Gulf States Utilities Co., ice plant addition, to P. O. Oliver & Son, Lake Charles, $80,000. Noted Nov. 17.

**Tenn., Athens** — KNITTING MILLS — Warwick Knitting Mills, 2967 Atlantic Ave., Brooklyn, N. Y., knitting mills, 55,000 ft. floor space, here, to T. Sherman, Athens. Archts. est. $300,000.

**Ind., Indianapolis** — PLANT — Republic Creosoting Co., 736 North Miami St., general contract brick and steel factory, to Central States Bridge Co., 601 Beecher St. Archts. est. $40,000.

**Ind., Indianapolis**—PLANT—Smith Agricultural Chemical Co., 1850 Kentucky Ave., will build steel factory. Private plans. Archts. est. $40,000.

**Ind., Shelbyville**—PLANT—Shelbyville Mild Products Co., general contract 4 story, 50 x 160 ft., rein.-con., brick and steel, to H. O. Phares, Shelbyville. Archts. est. $40,000.

**Mich., Detroit**—AUTOMOBILE PLANT —Chrysler Motor Corp., Kercheval Plant, 12265 East Jefferson Ave., 1 story, 150 x 150 ft., brick and steel addition, plain foundation, Kercheval Ave., to C. O. Barton, 508 Free Press Bldg. Archts. est. $65,000.

**Mich., Flint**—CHEMICAL PLANT—E. I. DuPont de Nemours, Hamilton Ave., 2 story and basement, 45 x 85 ft., brick and steel, plain foundation, St. John St., to W. E. Wood Co., 1805 Ford Bldg., Detroit. Archts. est. $50,000.

**Mich., Grand Rapids**—ICE PLANT—Consumers Ice Co., Market St., 1 and 2 story, 67 x 129 ft., brick, steel and tile, plain foundation, Market Ave., to J. Perkins & Sons, Perkins Bldg. Archts. est. $50,000.

**Mich., Lansing**—FERTILIZER PLANT —Michigan Fertilizer Co., Hymont St., 2 story, 165 x 415 ft., rein.-con. and brick,

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plain foundation, Hymont St., to H. G. Christman Co., 300 Blk. S. Archts. est. $115,000.

**Mich., Saginaw**—ICE CREAM PLANT—M. & B. Ice Cream Co., Water and Johnson Sts., 2 story and basement, rein.-con. and brick addition, plain foundation, to W. C. Henderson & Son, Saginaw. Archts. est. $50,000. Noted Nov. 17.

**Ill., Chicago**—SHOP—W. F. Hall Printing Co., 4600 Diversey Ave., masonry and carpentry contract 1 story, 114 x 313 ft., brick, 2959-303 Knox Ave., to J. Hammond Co., 2234 Flournoy St. Archts. est. $100,000.

**Ill., Chicago** — FACTORY — A. Epstein, archt., 2001 West Pershing Rd., masonry contract 3 story, 55 x 300 ft., brick, 1013-19 North Cicero Ave., to Anderson & Windblad, 6235 South Michigan Ave.; carpentry contract, to Heidel & Beck, 6235 South Michigan Ave., for Schutter-Johnson Candy Co., 20 North Jefferson St. Archts. est. $300,000. Noted Dec. 1.

**Minn., St. Paul**—FACTORY—Minnesota Mining & Mfg. Co., Forest and Fauquier Sts., general contract rebuilding 2 story, 152 x 577 ft., rein.-con. and brick, recently destroyed by fire, Forest and Fauquier Sts., to Struchen & Romer Co., 655 Shubert Bldg. Archts. est. $250,000.

**Mo., St. Louis**—PLANT—Union Cooperage Co., 2nd and Penrose Sts., 2 story, 80 x 115 ft., concrete and brick addition, to Humes-Deal Constr. Co., Arcade Bldg. Archts. est. $55,000.

**Mo., St. Louis**—FACTORY—Hemp & Co., 1945 South Vandeventer Ave., altering and repairing 2 story and basement, rein.-con. and brick, South Vandeventer Ave., recently damaged by tornado, to Widmer Eng. Co., 612 Laclede Gas Light Bldg. Archts. est. $45,000.

**Tex., Corpus Christi** — BOTTLING PLANT—Southern Bottling Co., 1406 Lipan St., general contract 50 x 140 ft., brick, tile and concrete bottling plant, to E. Madero, Corpus Christi, $70,000. Noted Nov. 24.

**Tex., Ingleside** — OIL REFINERY — Humble Oil & Refining Co., c/o Frost Bldg., San Antonio, will build 8,000 bbl. refinery plant, here, by day labor. $500,000. Private plans. Noted Aug. 18.

**Okla., Oklahoma City**—BAKERY—C. J. Patterson Corp., 4050 Penn St., Kansas City, Mo., 2 story and basement, 140 x 150 ft., rein.-con. and brick, here, to Fogel Constr. Co., 619 Reliance Bldg., Kansas City, Mo. Archts. est. $75,000.

**Okla., Tulsa**—BAKERY—C. J. Patterson Corp., 4050 Penn St., Kansas City, Mo., 2 story and basement, rein.-con. and brick, here, to Fogel Constr. Co., 619 Reliance Bldg., Kansas City, Mo. Archts. est. $75,000.

**Calif., Los Angeles**—CANDY FACTORY—L. J. Christopher Candy Co., 2101 South Los Angeles St., 2 story, 90 x 120 ft., brick, 22,000 sq.ft. floor space, 37th St. and Avalon Blvd., to G. A. Boyer, 372 Walnut Ave., Walnut Park, $100,000.

**Calif., Stockton** — CANNING PLANT — Thomas Canning Co., Filbert St. and Miner Ave., 3 buildings, incl. 50 x 200 ft. main plant with 40 x 85 ft. wing, 25 x 30 ft. power house, all steel, Filbert St., to Michel & Pfeffer, 10th and Harrison Sts., San Francisco.

**Ont., Niagara Falls**—CRANE FACTORY—Herbert Morris Crane & Hoist Co., Stanley St., general contract 1 story, 80 x 160 ft., brick and steel addition, to Taber-Ford Constr. Co., 533 St. Clair Ave. W., Toronto; and structural steel, to Standard Steel Constr. Co., Welland. Archts. est. $50,000.

# Buildings—Educational, Religious

## *Proposed Work*

**Mass., Boston**—LIBRARY—City, Library Dept., plans improving Central Library, Copley Sq. $250,000. Engineer and architect not selected.

**Mass., Brighton** (Boston P. O.)—HIGH SCHOOL — City of Boston, Schoolhouse Dept., takes bids about Jan. 5, 3 story and basement, brick and limestone, plain foundation, Bennet Dist., here. $1,539,000. O'Connell & Shaw, 134 Newbury St., Boston, archts. Noted Nov. 17.

**Mass., Holbrook** — HIGH SCHOOL — Town, W. H. Boardman, chn. com., having sketches made by G. W. H. Webb, Holbrook, altering and constructing 2 and 3 story and basement, 65 x 85 ft., brick and stone addition to Senior High School, plain foundation, Franklin St. $150,000.

**Mass., Milford**—HIGH SCHOOL—Town, J. C. Lynch, chn. com., 188 Main St., having plans prepared by R. A. Cook, 57 Prospect St., 3 story and basement addition. $275,000-$300,000.

**Mass., Plymouth** — HIGH SCHOOL — Town, T. O. Bodell, supt. Schools, having preliminary plans prepared by Frank Irving Cooper Corp., 172 Tremont St., Boston, Mass., Junior and Senior High School, brick and steel, Lincoln St. To exceed $150,000. Noted Dec. 8.

**Mass., West Lynn** (Ind. Sta. Lynn) — SCHOOL—City of Lynn, Schoolhouse Dept., City Hall, plans rebuilding school, Walnut St., here., recently destroyed by fire. $150,000. Engineer and architect not selected.

**Mass., Woburn**—HIGH SCHOOL—City, T. H. Duffy, mayor, having sketches made 2 or 3 story and basement, brick addition, to exceed $150,000. Engineer and architect not selected.

**Conn., New Britain** — DORMITORY — State Normal School, State Bd. Educ., Courthouse, Hartford, having plans prepared by Guilbert & Betelle, 20 Branford Pl., Newark, N. J., 3 story and basement, brick and steel, plain foundation, here. $150,000. Noted Dec. 10.

**Conn., Torrington** — CHURCH — St. Maron's Church, P. Risk, pastor, having plans prepared by J. A. Jackson, 185 Church St., New Haven, 1 story and basement, 45 x 150 ft., brick, steel and stone church. $150,000.

**N. Y., Brooklyn**—HIGH SCHOOL—Bd. Educ., 500 Park Ave., New York City, rejected bids Nov. 7, P. S. 96 (Junior High School), Avenue P between West 11th and 12th Sts., here. Noted Oct. 20.

**N. Y., Cedar Manor** (mail Jamaica) — SCHOOL—Bd. Educ., 500 Park Ave., New York City, rejected bids Nov. 22, P. S. 140, 116th Ave., here. Noted Nov. 3.

**N. Y., New York**—SCHOOL—Bd. Educ., 500 Park Ave., rejected bids Nov. 22, addition to P. S. 82, West 176th St., from Macomb Rd. to Harrison Ave. Noted Nov. 3.

**N. Y., New York**—SCHOOL—Bd. Educ., 500 Park Ave., rejected bids Nov. 22, P. S. 40, East 19th St. near 2nd Ave. Noted Oct. 27.

**N. Y., Rochester**—CHURCH—Methodist Episcopal Union of Rochester, J. B. Kelso, chn. Bd. Trustees, 497 State St., plans church, North Clinton St. and Scofield Rd. Engineer and architect not selected.

**N. Y., Rochester**—SCHOOL—Bd. Educ., J. S. Mullen, secy., soon lets contract altering and constructing addition. $150,000. J. M. Tracy, 13 South Fitzugh St., archt.

**N. J., Deans**—SCHOOL—Bd. Educ., South Brunswick, having sketches made by A. Merchant, 52 Paterson St., New Brunswick, 2 story and basement, brick and steel, plain foundation, here. $150,000.

**N. J., Passaic** — HIGH SCHOOL — Bd. Educ., Hobart Bldg., having sketches made by J. F. Kelley, Prospect Ave., 4 story and basement, brick and steel, plain foundation, $350,000. Noted Sept. 1.

**N. J., Raritan**—SCHOOL—Bd. Educ. having sketches made by H. G. Bach, 63 Schureman St., New Brunswick, 2 story and basement, brick and steel, plain foundation, here. $150,000.

**O., Cleveland**—COLLEGE—Western Reserve University, S. S. Wilson, secy., 10940 Euclid Ave., plans group brick and steel college buildings, Euclid Ave. and East Blvd. $2,500,000. Engineer and architect not selected.

**O., Fairview** (br. Cleveland)—HIGH SCHOOL—Bd. Educ., H. S. Hennerle, clk., 4167 West 211th St., Cleveland, having preliminary plans prepared by Fulton & Taylor, 8120 Euclid Ave., Cleveland, 2 story and basement, brick, steel and concrete high school. $250,000.

**O., Mt. Healthy** (br. Cincinnati) — SCHOOL—Village having plans prepared by S. Hannaford & Sons, 1024 Dixie Terminal, Cincinnati, 3 story and basement, 61 x 105 ft., brick and rein.-con., plain foundation, Compton Rd. $150,000.

**Ind., LaFountaine** — SCHOOL — School Trustees Wabash Co. (Wabash) having plans prepared by M. Rosenbush, 1125 Buckeye St., Kokomo, 2 story and basement, rein.-con., brick, steel and stone high and grade school. $150,000.

**Mich., Detroit** — CHURCH — Narden Methodist Episcopal Church had plans prepared by John Stahl & Co., 628 McKerchey Bldg., 2 story and basement, 100 x 200 ft., rein.-con., brick and steel, plain foundation, West Chicago Blvd. $400,000.

**Mich., Detroit**—SCHOOL—St. Monicas Parish having plans prepared by McGrath, Dohmen & Page, Wormer & Moore Bldg., (1st unit), 2 story and basement rein.-con., brick and steel, plain foundation, Midfield Ave. $150,000.

**Mich., Ecorse** (mail Detroit)—SCHOOL—Bd. Educ. Dist. 3 having plans prepared by J. G. Kastler & Co., Detroit Savings Bank Bldg., Detroit, 3 story, 20 room, rein.-con., brick, steel and stone addition, plain foundation, 7th Ave. $175,000.

**Mich., Pontiac**—HIGH SCHOOLS—Bd. Educ. plans Western and Northern High Schools, each 2 story and basement, rein.-con., brick and steel, plain foundations. $485,000 each. Engineer and architect not selected.

**Wis., Kenosha**—HIGH SCHOOL—Bd. Educ., having plans prepared by J. D. Chubb, 109 North Dearborn St., Chicago, Ill., Lincoln Junior High School, 3 story, 200 x 200 ft., rein.-con., brick and stone, Lincoln Park. $500,000.

**Mont., Great Falls** — HIGH SCHOOL — Voted $1,000,000 bonds, high school and equipment, for Bd. Educ. Bird & Van Teylinger, 814 Natl. Bank Bldg., archts.

**Mo., St. Louis** — CHURCH — Bethany Evangelical Lutheran Congregation, c/o A. Behnke, pastor, 4108 Natural Bridge Ave., having preliminary plans prepared by Curbusier & Foster, B. F. Keith Bldg., Cleveland, O., and L. J. Graham, associated archt., 4885 Natural Bridge Ave., 2 story and basement, rein.-con., brick and stone, Natural Bridge and Clay Aves. $175,000.

**Mo., St. Louis** — CHURCH — Fifth Church of Christs Scientist, W. H. Clark, chn., 3630 South Grand Blvd., takes bids early in 1928, 1 story and basement, 125 x 135 ft., rein.-con., brick and stone, Arkansas and Potomac Sts. $200,000. Wedemeyer & Nelson, 824 Wainwright Bldg., archts. Noted Nov. 10.

**Ark., Little Rock** — HIGH SCHOOL — City School Bd., W. N. Brandon, secy., 8th and Louisiana Sts., having preliminary plans prepared Negro High School, 2 or 3 story and basement, rein.-con. and brick. $250,000.

**Tex., Port Arthur**—HIGH SCHOOL—Bd. Educ., c/o H. O. Preston, pres., having plans prepared by M. Lemmon, Port Arthur, Junior High School, 3 story, rein.-con., brick and hollow tile, plain foundation. $500,000 incl. equipment. Noted Nov. 24.

**Okla., Ponca City** — EDUCATIONAL — Marland Industrial Institute, Inc., having plans prepared by Forsyth Corp., P. O. Box 1452, 1 story and basement, 147 x 184 ft. educational building, plain foundation. $150,000.

**Wash., Pullman** — SCHOOL — Bd. Regents, Washington State College, having plans prepared by S. Smith, Pullman, 4 story, 110 x 160 ft., rein.-con. and steel home economics building, incl. assembly hall, cafeteria, etc. on campus. $236,000.

**Calif., Los Angeles**—UNIVERSITY—Los Angeles Lutheran University having pre-

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Buildings—Educational, Religious (Cont.)

liminary plans prepared by Allison & Allison, Hiberman Bldg., 1st group, incl. 3 buildings for fine arts department, 2 classroom buildings, temporary administration and classroom building, science building, library, etc., and 2nd group, large auditorium, future administration building, girls dormitory group, stadium, 25,000-30,000 seating capacity, etc., all at Palisades del Rey. Total $5,000,000.

**Calif., Monterey** — HIGH SCHOOL — Monterey Union High School Dist. having preliminary plans prepared by N. F. Coulter, 46 Kearny St., San Francisco, 2 story classroom building, 1 story each, cafeteria and shop addition, all foregoing rein.-con. $200,000 bond election soon for same.

**Calif., Oakland** — SCHOOLS — Oakland School Dist. having plans prepared by Building and Grounds Dept., Bd. Educ., Horace Mann School, 1 story, frame and stucco, $28,000; Hawthorne School, brick assembly hall and 2 classrooms, $72,500; McClymonds School, brick gymnasium and 7 classrooms, $90,000; Oakland High School, rein.-con. shops, $60,000; Lakeview School, frame and stucco gymnasium and shop building, $78,000; Laurel School, 1 story, brick and concrete $76,000; and general shop buildings, $70,000.

**Calif., Sacramento**—SCHOOL—Bd. Educ. takes bids about Feb. 1, (1st unit) Lincoln School, 2 story, 150 x 200 ft., brick, steel and concrete, plain foundation, 4th and Q Sts. $295,000. Dean & Dean, California State Life Bldg., archts. Noted May 19.

**Calif., San Francisco**—CHAPEL—Grace Cathedral, c/o L. P. Hobart, archt., Crocker Bldg., having plans prepared, fireproof, Jones St. near California St.

**Calif., San Francisco**—REST HOME—Christian Scientist Benevolent Assn., c/o H. H. Gutterson, archt., 526 Powell St., plans fireproof, incl. 300 bedrooms, reception room, chapel, etc., 19th Ave. and Sloat Blvd. $1,000,000.

**Ont., London** — LIBRARY — Defeated $200,000 bonds, new library. Noted Oct. 27.

## *Bids Desired*

**Mass., Worcester** — NURSES HOME — Worcester City Hospital, C. A. Drew, supt., taking bids superstructure brick and steel, Jacques Ave. To exceed $150,000. Fuller & Delano, 44 Front St., archts. Noted Mar. 10.

**Ind., Mishawaka**—SCHOOL—Dec. 30, by Hamilton, Fellows & Wilkinson, archts., 814 Tower Court Bldg., Chicago, Ill., Beiger School, 2 story and basement, 114 x 251 ft., rein.-con., brick and steel, Lincolnway and Virgil St., here, for Bd. Educ. $200,000. Noted Nov. 17.

**Calif., South Pasadena**—HIGH SCHOOL—Dec. 28, by South Pasadena High School Dist., 1 story main building H shaped with two 375 ft. wings, incl. auditorium 1,200 seating capacity, gymnasium, etc., Fair Oaks Ave. $275,000. N. F. Marsh & Co., 1011 Bway., Central Bldg., Los Angeles, archt. Noted Dec. 15.

## *Contracts Awarded*

**N. H., Manchester**—SCHOOL—Our Lady of Perpetual Help Roman Catholic Church, 2 story and basement, brick and stone, plain foundation, Haywood St., to L. H. Shattuck, Inc., 208 Granite St. Archts. est. $150,000. Noted Nov. 17.

**Mass., Somerville** — HIGH SCHOOL — City, L. M. Conwell, mayor, City Hall, 2 and 3 story and basement, 80 x 175 ft., and 75 x 165 ft., brick, plain foundation, Highland Ave., to C. S. Cunningham & Co., 23 Central Ave., Lynn. $820,000.

**N. J., Montclair** — NURSES HOME — Mountainside Hospital, Highland Ave., having plans prepared by York & Sawyer, 100 East 42nd St., New York City, 4 story and basement, brick and steel addition, plain foundation. $450,000.

**N. J., Teaneck** (mail West New York)—HIGH SCHOOL—Bd. Educ., Town Hall, general contract 3 story and basement, 250 x 250 ft., brick and steel, plain foundation, to F. and C. Haerter, 769 Dewey Ave., West New York, $557,000; plumbing, to J. Boyd Plumbing & Heating Co., 100 West 72nd St., New York City, $34,975; also heating and ventilating, to Johnson Heating Co., 33 West 47th St., New York City, $63,875. Grand total $655,850. Noted Dec. 15.

**Pa., Elkins Park** — HIGH SCHOOL — School Dist., High School Bldg., general contract Junior High School, 3 story and basement, 55 x 70 ft., and 60 x 250 ft., brick and steel, plain foundation, Hewitt Rd. and Glenside Ave., Cheltenham Twp., to Bowden Constr. Co., 1607 Summer St., Phila., $192,488; and heating, to Bowers Bros., 2015 Sansom St., Phila., $38,450.

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**Pa. Phila.**—SCHOOL—Bd. Educ., J. D. Cassell, supt. buildings, 10th and Chestnut Sts., general contract 3 story and basement, 125 x 195 ft., rein.-con. and brick, plain foundation, Shawmont and Avon Sts., to G. H. Evans, 1416 Vine St., $404,883; and heating to A. McClintock & Co., 5608 Race St., $40,985. Noted Dec. 1.

**Md., Baltimore**—GYMNASIUM—Taylor & Fisher, archts., Union Trust Bldg., 2 story and basement, 75 x 187 ft., concrete, brick and stone, Roland and Belvedere Aves., to Morrow Bros., Fidelity Bldg., for Gilman School for Boys, Roland and Belvedere Aves. $175,000. Noted Dec. 1.

**D. C., Wash.**—SCHOOL—District Comrs., District Bldg., Barnard School addition, to J. B. Ginechesi, Inc., 1655 Conn. Ave. N.W., $108,133. Noted Nov. 24.

**O., Norwood** (Ind. br. Cincinnati)—SCHOOL—Sisters of Precious Blood, 3518 Montgomery Rd., 3 story and basement, brick and rein.-con. plain foundation, Fenwick St., to W. Harig Co., 31 East 4th St., Cincinnati, $475,000. Noted Oct. 24.

**Ind., Elkhart**—SCHOOL—School Comrs. general contract 2 story and basement, 83 x 123 ft., brick and steel, to A. I. Longacre, 433 Monger Bldg. Archts. est. $150,000. Noted Nov. 24.

**Ind., Ft. Wayne** — SCHOOL — Lakeside Catholic School, Delaware and Kentucky Sts., general contract 3 story and basement, 140 x 180 ft., rein.-con., brick and steel, incl. auditorium, stage, chapel and 20 class rooms, to Sheets & Carlson, 344 Utility Bldg. Archts. est. $150,000. Noted Nov. 17.

**Ind., Muncie** — TRAINING SCHOOL — State Normal, general contract 2 story, 116 x 262 ft., rein.-con., brick and steel, Eastern Dr., to A. J. Glazer, Muncie, $171,000. Noted Nov. 24.

**Ind., Richmond**—SCHOOL—Bd. Educ., general contract 2 story, brick, to H. E. Pennick, Richmond. Archts. est. $150,000. Noted Nov. 17.

**Mich., Grosse Pointe** (br. Detroit)—SCHOOL—Bd. Educ., 2 story and basement, rein.-con., brick and steel, plain foundation, Defer Rd., to H. M. Martens Co., 2111 Woodward Ave., Detroit. Archts. est. $150,000.

**Ill., Chicago** — HIGH SCHOOL — Bd. Educ., 650 South Clark St., general contract Edwin G. Foreman Junior High School, 3 story and basement, North La Claire and Belmont Aves., to J. W. Snyder Co., 307 North Michigan Ave., $653,000. Noted Nov. 3.

**Wis., Milwaukee**—SCHOOL—University of Wisconsin, Madison, general contract 6 story and basement, 58 x 120 ft. addition, 7th and State Sts., to W. W. Oeflein, Inc., 110 East Wisconsin Ave., $154,520.

**Kan., Dodge City**—HIGH SCHOOL—Bd. Educ., 3 story and basement, 140 x 343 ft., rein.-con., brick, stone and terra cotta, to J. N. Parham, Dodge City. Archts. est. $250,000. Noted Nov. 17.

**Okla., Ponca City**—INDUSTRIAL INSTITUTE and DORMITORY—Marland Refining Co., 2 story and basement, 50 x 200 ft., men's dormitory and 1 story and basement, 127 x 147 ft. industrial institute, both rein.-con., steel and tile, plain foundations, to G. D. Morrow & Son, 607 Kennedy Bldg., $151,000 and $148,400 respectively. Noted Nov. 17.

# Federal Government Work

## *Proposed Work*

**Missouri**—Dikes, etc.—U. S. Engineer Office, 701 Postal Telegraph Bldg., Kansas City, soon takes bids 3 three-row dikes at Baltimore Bend, near Dover, $90,000; 3 three-row, 4,000 ft. near Berlin Bend, $120,000; 5 three-row, 3,200 ft. near Jackson Bend, $96,000; 2 three-row at Jackson Bend, near Missouri City, $132,000; and 4 three-row, 2,070 ft. at Hinkles Bend, $62,000.

**Texas**—Lighthouse Service—G. R. Putnam, comr. Lighthouses, Wash., D. C., made surveys improving lighthouse service, incl. depot $16,000, gas buoys at Sabine Pass $16,000, entrance range lights at Brazos, Santiago $13,000, and navigation aids at Corpus Christi channel $37,000.

## *Bids Desired*

**N. Y., Governors Island** (br. New York) — Ferry Bridge and Rack — Jan. 9, by Quartermaster, Fort Jay, rebuilding ferry bridge and rack, here; adv. E. N.-R. Dec. 22.

**Pa., Pittsburgh**—MANEUVER BOATS—Jan. 19, at U. S. Engineers Office, 2 steel maneuver boats.; adv. E. N.-R. Dec. 22. Noted Nov. 3.

**D. C., Wash.**—Towers—Dec. 27, at office Chief Clerk Dept. Commerce, 19th St. and Pennsylvania Ave. N. W., galvanized steel, skeleton towers.

**Fla., Miami Beach** (br. Miami)—Jetties—Jan. 7, by U. S. Engineer Office, Jacksonville, extending north and south jetties and repairing revetment at shore end south jetty, here. Noted Nov. 24.

## *Bids Received*

**N. Y., New York**—Motor Generator Sets, etc.—Spec. 5547—Bureau Yards & Docks, Navy Dept., Wash., D. C., generator sets, etc. at Navy Yard, here, from General Electric Co., River Rd., Schenectady, $27,945.

**N. Y., Rochester**—Changes—Treas. Dept. at office Supervising Archt., Wash., D. C., Dec. 13, changes at U. S. Post Office, here, from Stewart & Bennett, Inc., 126 North Water St., $3,475. Noted Nov. 24.

**D. C., Anacostia** (Sta. Wash.)—Hangar—Spec. 5548—Bureau Yards & Docks, Navy Dept., Dec. 14, repairing hangar at Naval Air Station, here, from Donnell-Zane Co., Inc., 225 Bway., New York City, $3,681.

**Calif., Los Angeles**—Dredging—U. S. Engineer Office, 725 Central Bldg., Dec. 9, dredging East Basin Channel, Los Angeles Harbor, here, from Western Dredging Co., Security Bldg., at $0.285 per cu.yd. Noted Nov. 24.

## *Contracts Awarded*

**Conn., New Haven**—Dredging—U. S. Engineer Office, Providence, R. I., dredging in Mill River, New Haven Harbor, here, to Morris & Cummings Dredging Co., Inc., 15 Moore St., New York City, $33,600. Noted Dec. 1.

**Pa., Phila.**—Dredging—U. S. Engineers Office, dredging and rock excavating in Delaware River, on Eddystone, Chester and Marcus Hook Ranges, to Great Lakes Dredge & Dock Co., 17 Battery Pl., New York City, $601,821.

**Pa., Phila.**—Dredging Sleeves—U. S. Engineer Office, rubber dredging sleeves, to Hewitt Rubber Co., 240 Kensington Ave., Buffalo, N. Y., $31,643.

**D. C., Wash.**—Excavation, etc.—Treas. Dept. at office Supervising Archt., excavation, etc. for Agricultural Administration Building, to English Constr. Co., 1311 H St. N.W., $77,500 (104 days). Noted Dec. 15.

**Ala., Birmingham**—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling 1st and 2nd floors U. S. Post Office and Court House, here, to J. F. Dietz, Birmingham, $14,777. Noted Dec. 1.

**Ala., Montgomery**—Quarters—Constructing Quartermaster, Maxwell Field, 13 noncommissioned officers quarters, to A. C. Samford, , Montgomery, $67,339. Noted Dec. 15.

**La., New Orleans**—Revetment, etc.—U. S. Engineer Office, wooden revetment work in Barataria and Lake Borgne Levee Dists., to S. B. Schoenberger, Triumph $7,598, to P. M. Adema, Pointe-a-la-Hache $3,900, and to J. W. Bick, 1118 North Dupre St., $5,884; also levee work in Pontchartrain Levee Dist., to Lower Coast Constr. Co., Godchaux Bldg., $17,360. Grand total $34,742. Noted Nov. 10.

**Wis., Sparta**—Mess Halls, etc.—Quartermaster 6th Corps. Area, Chicago, Ill., 14 mess halls, dispensary and men's club, to Miller & Lamb, Tomah, $14,146. Noted Dec. 8.

# Unclassified

## *Proposed Work*

**Playground, etc.—Charlestown** (Sta. Boston), **Mass.**—City of Boston, Park Dept., 33 Beacon St., plans children's public playground and mothers' rest, and building with shower baths, Bunker Hill, Charles and Main Sts., here. To exceed $25,000. Private plans.

**Transit Station—Dorchester** (Sta. Boston), **Mass.**—City of Boston, Transit Dept., 1 Beacon St., making plans "Ashmont Station" Dorchester Rapid Transit, 1 story, concrete and steel, here. $35,000. E. R. Springer, c/o owner, engr.

**Heating System — Cedar Manor** (mail Jamaica), **N. Y.**—Bd. Educ., 500 Park Ave., New York City, rejected bids Nov. 22, heating system in P. S. 140, 116th Ave., here. Noted Nov. 3.

**Heating System—New York, N. Y.**—Bd Educ., 500 Park Ave., rejected bids Nov. 22, heating system in P. S. 82, West 176th St. Noted Nov. 3.

Unclassified (Continued)

**Gas Mains—Oyster Bay, N. Y.**—Long Island Lighting Co., 19 West Main St., plans 100,000 ft. gas mains, in various streets, supplying Oyster Bay Twp., Locust Valley, etc.

**Stadium and Gymnasium—Jackson, Miss.**—Millsaps College having preliminary plans prepared rein.-con. stadium and gymnasium. $50,000 up. Private plans.

**Airport — Knoxville, Tenn.** — City plans hangars, buildings, and rein.-con. bridge for municipal airport at Dickensons Island. $170,000.

**Service Tunnel—Cleveland, O.**—Cleveland Union Terminal Co., Union Terminal Bldg., had plans prepared by H. D. Jouett, archt. and engr., Union Terminal Bldg., concrete service tunnel, Public Sq. $200,000.

**Golf Course, Swimming Pool, etc.—Chicago, Ill.**—Blue Hill Country Club, L. C. Davis, 30 North La Salle St., mgr., having plans prepared by R. M. Hyde, 8 South Dearborn St., 2 golf courses, outdoor swimming pool, clubhouse, stadium, etc. on 198 acre site, on east side Medinah Rd., Schaumburg Twp. $350,000.

**Boilers and Turbines—St. Paul, Minn.**—Waldorf Paper Products Co., Myrtle and Pillsbury Aves., making plans complete new equipment, incl. boilers and steam turbines. R. D. Thomas, 1200 2nd Ave., Minneapolis, engr.

**Gas Pipe Line—Texas**—Frank Pickrell & associates, 3721 Chester St., El Paso, making surveys and plans 220 mi. natural gas pipe line from Kermit fields, northeast to El Paso. $5,000,000.

**Pipe Line—Texas**—Independent Oil & Gas Co., Pecos, making preliminary surveys approximately 55 mi. 8 in. welded pipe line from Monahans to Church and Field pool in Crane Co. to loading rack on Kansas City, Mexico & Orient Ry. of Texas, in Pecos Co. $110,000. Private plans.

**Gas System — Big Spring, Tex.** — E. H. Hornaday plans 17 mi. 8 in. pipe line from gas fields to Howard Co., here, also complete distributing system, here. $150,000.

**Fat Stock Show Improvements—San Antonio, Tex.**—Fat Stock Show Assn., c/o Willow Springs Golf Club, St. Hedwig Rd., plans improving 175 acre site, incl. 100 x 225 ft. arena, 7,000 seating capacity, at East Houston St., Willow Springs Club Property. $175,000.

**White Way—San Antonio, Tex.**—Making plans 5½ mi. white way lighting system. $30,000 (equipment). I. Ewig, city engr.

**Grade Separation—California**—State Hy. Dept., Sacramento, plans grade separation over Southern Pacific R.R. tracks, on main highway 5 mi. south of Salinas, Monterey Co. State appropriates $50,000 towards cost. R. M. Morton, Strub Bldg., Sacramento, engr.

**Motion Picture Stage — Los Angeles, Calif.**—Fox Hills Studios had plans prepared 1 story, 280 x 400 ft. motion picture stage at Westwood. $100,000. W. Darling, Fox Film Corp., 916 South Olive St., Los Angeles, technical engr.

**Police and Fire Telephone Signal — Montreal, Que.** — City plans submitting referendum to ratepayers in January, police and fire, telephone and signal service. $2,000,000.

**Docks, Storage Sheds, etc.—Windsor, Ont.**—Canada Steamship Lines, 108 Wyandotte St. W., D. J. Bourke, engr., making plans and takes bids early in 1928, docks, storage sheds and ramp bridge. $75,000.

**Grain Elevators — Alberta** — Parish & Heinbacker, Ltd., Calgary, plans grain elevator, at Calgary, $75,000; also one at Stettler, $50,000.

## Bids Desired

**Heating and Kitchen Equipment — Beacon, N. Y.**—Dec. 29, by Commissioner Dept. Correction, Home Savings Bank Bldg. North Pearl St., Albany, heating and kitchen equipment at Matteawan State Hospital, here; adv. E. N.-R. Dec. 22.

**Fire Alarm System—Brooklyn, N. Y.**—Dec. 30, by J. J. Dorman, comr. Fire Dept., Municipal Bldg., New York City, portion underground fire alarm system in Flatbush, Boro Park, Bensonhurst, here. Former bids rejected. Noted Dec. 8.

**Plumbing, etc.—Rye, N. Y.**—Dec. 27, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, plumbing and fire stand pipe systems in bath house, Rye Beach, Contr. 182P, and roofing bath house, Contr. 182R, here. J. Downer, ch. engr.; adv. E. N.-R. Dec. 22.

**Street Signs—Birmingham, Ala.**—Jan. 24, by A. J. Hawkins, city engr., approximately 350 complete streets signs f.o.b. Birmingham; adv. E. N.-R. Dec. 22.

**De-Aerating Feed Water Heater—Cleveland, O.**—Dec. 23, by City, a de-aerating feed water heater for City Hospital Building.

**Lighting System—Chicago, Ill.**—Dec. 29, by M. J. Kennedy, comr. Dept. Gas & Electricity, Room 614, City Hall, electric street lighting system in Northwest, 22nd St., Wabansia, Rice, Lincoln, Byron, Marquette, South Chicago, Southwest, 39th St., Walker and Westworth Dists.

**Heating System—St. Louis, Mo.**—Jan. 17, by Bd. Pub. Serv., 208 City Hall, heating system at City Sanitorium, $28,200; also moving and raising 1 story brick building and equipment, at Delmar and DeGiverville Aves., $4,200. L. R. Bowen, 301 City Hall, engr.

**Oil Pipe Line—Texas**—See "Contracts Awarded."

## Contracts Awarded

**Chimney—Brooklyn, N. Y.**—B. S. Coler, comr. Dept. Pub. Welfare, Municipal Bldg., New York City, erecting radial brick chimney and repairing incinerator plant at King Co. Hospital, here, to J. D. Nugent, 1744 70th St., $10,367. Noted Dec. 15.

**Subway—Long Island City, N. Y.**—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, Sect. 13, Route 107, under Jackson Ave. from Arch to Queens Sts., here, to Atwell, Gustin & Morris Co., 1 Park Ave., New York City, $5,198,284. Noted Nov. 17.

**Comfort Stations—New York, N. Y.**—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., to Riley Building & Constr. Co., 1919 Bway., comfort station at Bway. and Spuyten Duyvil Parkway, $30,932, at Fordham Rd. and Southern Blvd. $26,545, at White Plains Ave. and Gun Hill Rd. $26,872, at Fordham Rd. and Webster Ave. $23,625. Grand total $107,974. Noted Dec. 1.

**Wharf—New Orleans, La.**—Dock Bd., New Court House, concrete wharf, dock, shed foundation, fire walls, ramps, and paving, etc., for Poydras St. Wharf, 300 x 840 ft., and Girod St. Wharf, 250 x 530 ft., to C. A. D. Bayley & Co., Interstate Bldg., $210,300.

**Underpass—Louisville, Ky.**—Louisville & Nashville R.R. Co., Louisville, W. H. Courten, ch. engr., Southern R.R. Co., Wash., D. C., B. Herman, ch. engr., and Bd. Pub. Wks., underpass on 4th St., to Gould Contg. Co., 10th Ave. N., Nashville, $91,958. Noted Oct. 20.

**Refrigeration Plant—St. Louis, Mo.**—Bd. Pub. Serv., 208 City Hall, complete refrigeration plant in new morgue, to Crescent Eng. Co., 2642 Lafayette Ave., $23,327.

**Oil Pipe Line—Texas**—Humble Oil Refining Co., c/o Frost Bldg., San Antonio, will build 12 mi. 10 in. oil pipe line from Ingleside to Harbor Island at Pt. Aransas by day labor. $150,000. Private plans.

**Oil Pipe Line—Texas**—Independent Oil & Gas Co., Pecos, will build 23 mi. 8 in. welded pipe line from Hendricks pool in Winkler Co. to Monahans, by day labor. $90,000. Private plans.

**Transmission Lines — Texas** — Central Power & Light Co., c/o Frost Bldg., San Antonio, 68 mi. transmission line between Del Rio and Uvalde, also 100 mi. transmission line from power plant near Del Rio connecting with north line at Val Verde-Crockett Co., divisional lines, to L. E. Myers Constr. Co., 53 West Jackson Blvd., Chicago, Ill., approximately $90,000 and $140,000 respectively. Noted Dec. 1.

**Trout Farm—Rocky Ford, Colo.**—D. V. Burrell (owner and builder) will build trout farm, incl. ten 18 x 150 ft. lakes. $100,000.

**Lighting System—Alhambra, Calif.**—For 198 Permestand posts for ornamental lighting system on Valley Blvd. from Garfield St. to west city limits, to J. C. Perry, Detwiler Bldg., Los Angeles, $71,717.

**Wharf — San Pedro, Calif.** — Harbor Comn., Los Angeles, will extend 44 x 268 ft. wharf, creosoted wood piling with 3 in. cedar deck, also rip-rap protection wall, etc., Berth 151, here, by force account. C. F. Nicholson, city harbor engr. Former bids rejected. Noted Dec. 15.

**Wharf—Sorel, Que.**—Dept. Pub. Wks., Ottawa, constructing wharf, here, to A. Giguere, Shawinigan Falls, $29,510.

**Wharf — Bella Bella, B. C.** — Dominion Govt., Ottawa, Ont., constructing wharf and improvements, here, to J. Currie, Prince Rupert, $25,500.

# Materials

## Bids Desired

**Composition Castings—Boston, Mass.**—Dec. 29, by Supply Dept., 10,000 lb. No. 1, 20,000 lb. No. 2 and 1,000 lb. No. 3 composition castings. H. S. Frost, supt.

**Gate Valves—Boston, Mass.**—Dec. 23, by Dept. Pub. Wks., one hundred 6 in. gate valves. J. H. Sullivan, comr.

**Asphaltic Cement—Brooklyn, N. Y.**—Dec. 28, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, 600,000 gal. asphaltic cement for sheet asphalt and bituminous concrete mixtures, 15,000 cu.yd. asphalt sand, 4,000 net tons limestone or other inorganic dust, 10,000 cu.yd. binder stone, 6,000 cu.yd. sand for paving and concrete, 6,000 cu.yd. 1½ in. coarse aggregate, either broken stone or gravel, 10,000 bbl. portland cement, and 15,000 cu.yd. steam cinders.

**Pipe, etc.—New York**—Jan. 6, by P. J. Dooling, comr. Purchase, Municipal Bldg., pipe, pipe fittings, valves, engineers, plumbers and steamfitters supplies, to Dept. Fire and Police. Correction, etc.

**Stokers, etc. — Kent, O.** — Bd. Trustees Kent Normal School, Ronan & Ingleson, purch. agts., 1614½ North High School, Columbus, in market two 250 hp. boilers, 2 large stokers, conveyors, etc. $50,000.

**Pumps—Yellow Springs, O.**—Jan. 11, by Village, C. H. Ellis, clk. Bd. Trustees Pub. Affairs, motor driven and gasoline engine driven pumps, both 150 gal. capacity.

**Gravel—Louisiana**—Jan. 3, by State Hy. Comn., Baton Rouge, washed gravel for Leesville-Texas Highway, Project 322-C, Vernon Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, engr.

**Water Meters — El Reno, Okla.** — City Manager in market one hundred ⅝ in. water meters and 2,000 ft. ⅝ in. lead pipe for Waterworks Dept.

**Water Meters, etc. Marlow, Okla.**—City in market one hundred ⅝ in. water meters and boxes.

**Pump—South San Francisco, Calif.**—Dec. 27, by D. McSweeney, city clk., multi-stage centrifugal pump, 750 gal. capacity.

**Generator—Milton, Ore.**—Jan. 23, at office F. A. Fullerton, city bus. mgr., one 1,000 kw. electrical generator direct connected with suitable hydraulic turbine and exciter, etc.; adv. E. N.-R. Dec. 22.

**Pipe—Turlock, Calif.**—Jan. 17, by A. P. Ferguson, city clk., 600 ft. 8 in. Matheson joint asphaltum dipped or Class "B" c.i. asphaltum dipped Bell and Spigot pipe.

**Barbed Wire — Guadalajara, Mexico** — Natl. Chamber of Commerce, Industry and Mines, Avenue Corona 162, in market 20 tons barbed wire for fencing.

## Bids Received

**Cedar Poles—Colton, Calif.**—O. Phillips, city clk., Dec. 5, round cedar poles 40 ft. lengths with 8 in. tops with B treatment, ⅜ in. penetration, from Jones-Thorne Co., Bartlett Bldg., Los Angeles, $14.60 each 2% discount.

**Pipe — Glendora, Calif.** — City, from Amer. Cast Iron Pipe Co., Detwiler Bldg., Los Angeles, 1,400 ft. 12 in. Class "B" c.i. pipe at $1.60 per ft., with alternate bid $1.49 on (bidder's) own specification.

**Pipe — Vista, Calif.** — Vista Irrigation Dist., approximately 65,000 lin.ft. 3- to 6-in. welded steel pipe, from Western Metal Supply Co., 215 7th St., San Diego, approximately $70,000.

## Contracts Awarded

**Flumes and Intakes—Iowa**—See "Streets and Roads."

**Steel Sheet Piling—Houston, Tex.**—For 36,378 sq.ft. steel sheet piling, to Sheet Piling, Inc., 17 Johns St., New York City, $18,498. Engrs. est. $20,000.

**Pipe—Arcadia, Calif.**—G. G. Meade, city clk., 2,800 ft. 12 in. and 300 ft. 8 in. c.i. pipe, to Amer. Cast Iron Pipe Co., Detwiler Bldg., Los Angeles, $1.086 per ft. $241 respectively.

**Steel—Los Angeles, Calif.**—Los Angeles Co., to Soule Steel Co., Washington Bldg., reinforced steel for Puddingstone Dam, incl. 40,000 lb. ⅞ in. at $0.0266 and 32,500 lm. ¾ in. $0.0366 per lb. (square), 79,300 lb. ⅝ in. $0.0286, 2,560 lb. ¾ in. $0.0266, and 170,000 lb. ⅝ in. $0.0306 per lb. (round).

**Rails—San Francisco, Calif.**—Southern Pacific R.R. Co., 65 Market St., 22,025 tons steel rails, to Bethlehem Steel Co., Matson Bldg., 17,640 tons, to Colorado Fuel & Iron Co., Boston Bldg., Denver, Colo., and 30,910 tons, to U. S. Steel Products Co., Rialto Bldg.

**Steel Rails—Sydney, N. S.**—New York Central R.R. Co., 466 Lexington Ave., New York City, 11,000 tons steel rails, for Michigan Central Lines, to Dominion Iron & Steel Ltd., Canada Cement Bldg., Montreal, Que., $500,000.

**See proposal advertising on page 104**

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# UNIT PRICES

**On actual contracts gathered by field correspondents, also those sent in by readers**

## Analysis of Bids on Small Sewer Job at Rolla, Mo.

Four bids were received on September 2, 1927, for sewers and sewage disposal plant at Rolla, Missouri, and the contract was awarded to Joseph O'Neall of Leavenworth, Kan., at $46,862.45. Difference between high and low was $1,528.95 or approximately 3.2 per cent. Practically all of the work is in unpaved streets.

Section I of this contract covers the construction of sanitary sewers of vitrified pipe, with asphaltic joints, in trenches from 6 to 14 ft.

Borings for the work indicate very litle solid rock, but underlying the top soil which is but two or three feet in thickness is a mixture of cemented gravel known as hardpan but which is more nearly like the "caliche" of the arid parts of the country although not so closely cemented or so hard. Trenching machine operation although slow is possible and shooting is not necessary.

Section II covers the construction of an ejector station to house duplicate 50 g.p.m. sewage ejectors together with a compressed air line and 4-in. c.i. force main. The ejector station includes 34 cu.yd. concrete, and a brick superstructure in addition to the items given in the tabulation.

Section III covers the construction of a sewage disposal plant to consist of an Imhoff tank and sludge drying beds and includes 185 cu.yd. of reinforced concrete in addition to the items given.

The average cost, considering all four bids, of furnishing and laying the 8-in. and 12-in. pipe was, respectively, $0.45 and $0.72 a foot while the trenching considering (0-6) and (6-8) foot depths which constituted a greater portion of the work averaged for all four bids $0.50 and $0.58, respectively. It will be noted that on the main and outfall sewers the O'Neall Construction Co. was 2 per cent higher than the lowest bidder on that portion of the work and on the whole work there was a difference of 2 per cent.

Plans and specifications for this work were prepared by Black & Veatch, consulting engineers, Kansas City, and the work is being constructed under their supervision. Paul Hausmann, Jr., is resident engineer.

| | | | A | B | C | D |
|---|---|---|---|---|---|---|
| **Section I—Main and Outfall Sewers, Excavating and Backfilling Trenches** | | | | | | |
| I | 8,205 cu.yd. | (a) 0— 6 ft | $0.40 | $0.65 | $0.50 | $0.45 |
| | 9,933 cu.yd. | (b) 6— 8 ft | .50 | .70 | .62 | .50 |
| | 3,632 cu.yd. | (c) 8—10 ft | .60 | .75 | .90 | .65 |
| | 1,234 cu.yd. | (d) 10—12 ft | .75 | .80 | 1.40 | .80 |
| | 50 cu.yd. | (e) 12—14 ft | 1.00 | .85 | 2.50 | 1.00 |
| | | (f) 14—16 ft | 1.50 | 1.10 | 4.50 | 2.00 |
| | | (g) 16—18 ft | 2.00 | 1.50 | 7.50 | 2.25 |
| | 50 cu.yd. | (h) solid rock excav | 6.00 | 5.00 | 5.00 | 7.00 |
| | 140 cu.yd. | (i) tunnel excav | 1.50 | 1.75 | 2.00 | 1.50 |
| | | (j) old shee ting | 70.00 | 50.00 | 40.00 | 50.00 |
| | | (k) new sheeting | 70.00 | 50.00 | 65.00 | 50.00 |
| | 300 cu.yd. | (l) embankment | .75 | .75 | 1.00 | 1.00 |
| | Sewer Pipe | | | | | |
| II | 19,511 lin.ft. | (a) 8 in. vit. clay | .50 | .38 | .46 | .45 |
| | 3,541 lin.ft. | (b) 12 in. vit. clay | .75 | .60 | .82 | .70 |
| | 432 lin.ft. | (c) 6 in. on 8 in. wye branches | 1.00 | 1.25 | .95 | 1.00 |
| | 144 lin.ft. | (d) 8 in. cast iron | 1.50 | 1.75 | 1.58 | 1.50 |
| | 180 lin.ft. | (e) 12 in. cast iron | 2.00 | 3.00 | 2.45 | 2.50 |
| | Sewer Appurtenances | | | | | |
| III | 67 | (a) standard brick manholes | 80.00 | 55.00 | 50.00 | 75.00 |
| | | (b) standard concrete manholes | 80.00 | 55.00 | 50.00 | 75.00 |
| | | (c) standard shallow brick manholes | 80.00 | ..... | 40.00 | 75.00 |
| | | (d) standard shallow conc. manholes | 80.00 | ..... | 40.00 | 75.00 |
| | 4 | (e) standard brick drop manholes | 90.00 | 65.00 | 65.00 | 85.00 |
| | 4 | (f) standard conc. drop manholes | 90.00 | 65.00 | 65.00 | 85.00 |
| IV | 15 cu.yd. | conc. supporting piers | 20.00 | 15.00 | 18.00 | 20.00 |
| V | 20 cu.yd. | conc. pipe encasing | 20.00 | 15.00 | 17.00 | 20.00 |
| **Section II—Sewage Ejector Sta. and Force Main** | | | | | | |
| I | Excavating, etc. for sewage ejector station | | | | | |
| | 120 cu.yd. | (a) earth | 1.00 | .80 | .75 | 1.50 |
| | 40 cu.yd. | (b) loose | 2.00 | 2.00 | 1.25 | 2.00 |
| | 10 cu.yd. | (c) solid rock | 5.00 | 5.00 | 5.00 | 6.00 |
| II | Constructing ejector station, conc. house and ejector equip. (lump sum) | | 4,000.00 | 4,200.00 | 4,000.00 | 5,000.00 |
| III | 1,420 lin.ft. | 4 in. cast iron force main | .80 | .75 | 1.10 | .80 |
| IV | 2,400 lin.ft. | 1¼ ft. galv. wr. steel air sup. line | .35 | .45 | .50 | .50 |
| | 10 cu.yd. | rock excav. for items III and IV | 6.00 | 5.00 | 5.00 | 6.00 |
| **Section III—Sewage Disposal Works** | | | | | | |
| I | Excav. etc. for Sewage Disposal Works | | | | | |
| | 500 cu.yd. | earth | 1.50 | 1.00 | .75 | 1.50 |
| | 100 cu.yd. | loose rock | 2.00 | 2.00 | 1.25 | 2.00 |
| | 150 cu.yd. | solid rock | 4.00 | 3.00 | 5.00 | 5.00 |
| II | Imhoff Tank & Distribution Manhole, including conc. cast iron pipe, valves: (lump sum) | | 5,300.00 | 5,740.00 | ..... | 5,500.00 |
| III | Sludge filters: (lump sum) | | 1,100.00 | 1,510.00 | ..... | 1,500.00 |
| IV | Excavating, etc. conneeting pipe lines | | | | | |
| | | (a) 8 in. vit. clay pipe | .80 | .38 | .40 | .40 |
| | 150 lin.ft. | (b) 12 in. vit. clay pipe | 1.00 | .60 | .70 | 1.00 |
| | 48 lin.ft. | (c) 8 in. c.i. pipe | 1.50 | 1.75 | 1.60 | 1.50 |
| | 16 lin.ft. | (d) 12 in. c.i. pipe | 2.00 | 3.00 | 2.50 | 2.50 |
| V | Standard Manholes | | | | | |
| | 4 | (a) standard brick manholes | 80.00 | 55.00 | 50.00 | 75.00 |
| | | (b) standard concrete manholes | 80.00 | 55.00 | 50.00 | 75.00 |
| VI | Excavating, etc. bulkhead, cu.yd. | | 25.00 | 15.00 | 20.00 | 25.00 |
| VII | 3 cu.yd. | 1-2-4 concrete | 25.00 | 37.50 | 18.00 | 25.00 |
| | Totals | | $46,862 | $47,611 | $48,373 | $48,391 |

*Engineering News-Record, Issue of December 22, 1927.*

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***UNIT PRICES Continued on Page 316a***